# FINAL DEBRIEF

## **IMRC**



**CANADA 2016** 

Sudbury, Ontario, Canada August 19 - 26, 2016

## **Rules Governing IMRC 2016**

Version 2.1

Every effort has been made to make this Version (V2.1) as complete and accurate as possible. It is advisable, however, to check the website (<u>www.IMRC2016.ca</u>) to ensure this is the most up to date version.









## **TABLE OF CONTENTS**

1.0	Ove	FRALL
	1.1	Mission Statement
	1.2	Notice of Rules Revisions
	1.3	Roles and Responsibilities
	1.4	Chief Judge
	1.5	Simulation Lead Judge
	1.6	Simulation Judge
	1.7	Scorekeepers
	1.8	Scribe
	1.9	Competing Teams – Member Roles
	1.9.2	Captain
	1.9.3	Team Member
	1.10	Technician3
	1.11	Technical Translator
	1.12	Honesty, Transparency and Integrity
	1.13	Isolation
	1.14	Competition Task Areas
	1.15	Competition Review/Debrief5
	1.16	Team Requirements
	1.17	Fitness/Medical Suitability5
	1.18	Certificate of Qualifications
	1.19	Personal Protective Equipment
	1.20	Team Equipment
	1.21	Official Language
	1.22	Team Demographics
	1.23	Competition - General Rules & Requirements
	1.24	General Rules9









	1.25	Team Member Substitution	10	
	1.26	Penalties	10	
	1.27	Scoring	11	
	1.28	Debriefing/Information Sessions	11	
	1.29	Competition Task Specific Rules and Guidelines	12	
	1.30	General	12	
	1.30.1	Format Notes	12	
	1.30.2	Illness/Injury	12	
	1.30.3	Equipment Orientation	12	
2.0	Und	DERGROUND MINE RESCUE SCENARIO/SIMULATION		13
	2.1.1	Format	13	
	2.1.2	Equipment	18	
	2.1.3	Technical Standards	18	
	2.1.4	Team Procedures, Roles, Responsibilities	19	
	2.1.5	Evaluation Criteria	25	
3.0	Und	DERGROUND FIREFIGHTING SCENARIO		27
3.0		FormatFormat		27
3.0	3.1.1		27	27
3.0	3.1.1 3.1.2	Format	27 33	27
3.0	3.1.1 3.1.2 3.1.3	Format  Equipment	27 33 35	27
3.0	3.1.1 3.1.2 3.1.3 3.1.4	Format  Equipment  Technical Standards	27 33 35 35	27
3.0 4.0	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5	Format  Equipment  Technical Standards  Team Procedures	27 33 35 35	
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5	Format  Equipment  Technical Standards  Team Procedures  Evaluation Criteria	27 33 35 35 40	
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5	Format  Equipment  Technical Standards  Team Procedures  Evaluation Criteria  T AID SCENARIO	27 33 35 35 40	
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 FIRS 4.1.1 4.1.2	Format  Equipment  Technical Standards  Team Procedures  Evaluation Criteria  T AID SCENARIO  Format	27 33 35 35 40	
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 FIRS 4.1.1 4.1.2 4.1.3	Format  Equipment  Technical Standards  Team Procedures  Evaluation Criteria  T AID SCENARIO  Format  Equipment	27 33 35 35 40 42 42	
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 FIRS 4.1.1 4.1.2 4.1.3 4.1.4	Format  Equipment  Technical Standards  Team Procedures  Evaluation Criteria  T AID SCENARIO  Format  Equipment  Technical Standards	27 33 35 35 40 42 42 43	
	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 FIRS 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5	Format  Equipment  Technical Standards  Team Procedures  Evaluation Criteria  T AID SCENARIO  Format  Equipment  Technical Standards  Technical Standards  Team Procedures, Roles, Responsibilities	27 33 35 35 40 42 42 43 43	42
4.0	3.1.1 3.1.2 3.1.3 3.1.4 3.1.5 FIRS 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 HIGH	Format  Equipment  Technical Standards	27 33 35 35 40 42 42 43 43	42









	5.1.3	Technical Standards	46	
	5.1.4	Team Procedures, Roles, Responsibilities	46	
	5.1.5	Evaluation Criteria	47	
6.0	Тне	ORY ASSESSMENT	•••••	47
	6.1.1	Format	47	
	6.1.2	Equipment	48	
	6.1.3	Technical Standards	48	
	6.1.4	Team Procedures, Roles, Responsibilities	48	
	6.1.5	Evaluation Criteria	48	
7.0	TEC	HNICIAN BENCHING EQUIPMENT MAINTENANCE COMPETITION	•••••	49
	7.1.1	Format	49	
	7.1.2	Equipment	49	
	7.1.3	Technical Standards	50	
	7.1.4	Technician Procedures, Roles, Responsibilities	50	
	7.1.5	Evaluation Criteria	51	

## **APPENDICES**

## APPENDIX A1 – UNDERGROUND MINE RESCUE SCENARIO/SIMULATION

- APPENDIX A2 CAPTAIN AND BRIEFING OFFICER REPORTS
- APPENDIX A3 TABLET DATA

APPENDIX B – UNDERGROUND FIRE FIGHTING SCENARIO

APPENDIX C - FIRST AID SCENARIO

APPENDIX D — HIGH ANGLE ROPE RESCUE SCENARIO

APPENDIX E – THEORY ASSESSMENT

APPENDIX F – TECHNICIAN BENCHING EQUIPMENT MAINTENANCE COMPETITION

Questions regarding these rules may be directed to <a href="mailto:rules@IMRC2016.ca">rules@IMRC2016.ca</a>









## 1.0 **OVERALL**

#### 1.1 Mission Statement

The International Mines Rescue Competition (IMRC) is a biennial event. The purpose of the IMRC is to present realistic simulations that will allow organizers to:

- 1. Evaluate skills required to perform rescue operations in a mining environment.
- 2. Judge participants in an open and transparent manner.
- 3. Provide feedback to all participants.
- 4. Promote Mine Rescue through improved communication, co-operation and knowledge transfer between responders, mine operators, suppliers, regulators and educators.

#### 1.2 Notice of Rules Revisions

The 2016 International Mine Rescue Competition Organizing Committee may be required to revise or update the rules found in this or other pre-competition documents. Registered competing teams will be given notice of any revisions or updates to this or other rules documents. The current, standing rules documents will remain posted on the IMRC 2016 website prior to the competition. All scheduled future publications will be listed within this document and on the IMRC 2016 website.

## 1.3 Roles and Responsibilities

## 1.4 Chief Judge

- 1.4.1 The Chief Judge is responsible for the drafting, preparation and execution of all aspects of the IMRC. All Simulation Lead Judges, volunteers and support personnel are under the direction of the Chief Judge or his designated alternate. All scoring sheets are to be submitted by the Simulation Lead Judge to the Chief Judge for final review and scorekeeping. Any scoring disagreements that cannot be resolved amongst the Simulation Judges in their area of responsibility shall be presented to the Chief Judge for final decision.
- 1.4.2 For the 2016 International Mine Rescue Competition (IMRC 2016), the role and responsibilities of Chief Judge shall be carried out by the General Manager of Ontario Mine Rescue.

## 1.5 Simulation Lead Judge

- 1.5.1 Reporting to the Chief Judge, the Simulation Lead Judge is responsible for coordinating all Simulation Judges in their area of responsibility, and assisting in the interpretation of the Rules Governing the IMRC 2016. The Simulation Lead Judge will guide each competing team through their area of responsibility and ensure understanding of the given scenario by the team and/or Technical Translator. The Simulation Lead Judge is also responsible for ensuring that the field layout of their area of responsibility is reset after each team has competed, so that it is identical for each team.
- 1.5.2 For IMRC 2016, the role and responsibilities of Simulation Lead Judge shall be carried out by the individuals appointed by the Chief Judge prior to the event.









#### 1.6 Simulation Judge

- 1.6.1 Reporting to the Simulation Lead Judge for each competition task, the Simulation Judges will be responsible for observing the actions of competing teams and scoring each team according to pre-determined requirements. Simulation Judges must attend the official judges meeting prior to the competition, where they will be provided with information on their duties and scoring areas of the competition.
- 1.6.2 Simulation Judges will be selected and assigned by the Chief Judge from the list of qualified individuals that submit an Online Judge Application via the IMRC 2016 website before the listed deadline.

## 1.7 Scorekeepers

- 1.7.1 Scorekeepers will be responsible for collecting and compiling the official scoring documents completed by Simulation Judges for each competing team at each competition event or task. The Scorekeepers will be stationed in an area of seclusion and will be in contact with the Simulation Lead Judges and Chief Judge only.
- 1.7.2 For the IMRC 2016, the role and responsibilities of Scorekeepers shall be carried out by the individual(s) appointed by the Chief Judge.

#### 1.8 Scribe

- 1.8.1 The Scribe will follow each competing team through each competition task and shall be responsible for transcribing time specific actions of each competing team in English. Annotation of team actions will be made from the beginning of each scenario until the Simulation Lead Judge calls the problem "complete". The notes compiled by the Scribe shall be used by Simulation Lead Judges as well as the Chief Judge to confirm the validity of competition scoring and eliminate judging errors.
- 1.8.2 For IMRC 2016, the role and responsibilities of Scribe shall be carried out by the individual appointed by the Chief Judge.

## 1.9 Competing Teams – Member Roles

1.9.1 Incident Commander (Briefing Officer)





Since 1999





- 1.9.1.1 The team Briefing Officer (Incident Commander) is ultimately responsible for oversight of teams while they work through simulated underground emergency tasks.
- 1.9.1.2 The actions of the team Briefing Officer as it relates to team competition events shall be judged and scored in conjunction with the team score.

#### 1.9.2 Captain

- 1.9.2.1 The team Captain shall take charge of, and be responsible for, the discipline; general safety and work performed by his/her team; and should take orders only from the Briefing Officer.
- 1.9.2.2 The actions of the Captain as it relates to team competition events shall be judged and scored in conjunction with the team score.

## 1.9.3 Team Member

- 1.9.3.1 Each Team Member shall operate under the direction of the Captain at all times during all competition tasks.
- 1.9.3.2 The actions of the Team Members as it relates to team competition events shall be judged and scored in conjunction with the team score.

## 1.10 Technician

- 1.10.1.1 Competing Technicians will be responsible for diagnosing and repairing multiple pieces of emergency equipment during a separate Technician competition.
- 1.10.1.2 The Technician will not participate in any team task, exercise or event and will not contribute towards team scoring in any manner.

## 1.11 Technical Translator

1.11.1.1 For IMRC 2016, the role of the Technical Translator shall be carried out by an individual appointed in advance of arrival by the competing team. The Technical Translator will be responsible for following the team and converting both spoken language and written competition materials into the working language of the competing team. The goal of the Technical Translator role is to have the team hear the interpretation as if it were the original. Therefore, the Technical Translator must be an individual proficient in technical mining and emergency response terminology.

## 1.12 Honesty, Transparency and Integrity

## 1.13 Isolation

- 1.13.1 In the spirit of fairness and equality, teams taking part in the competition must not seek or share information in advance of participation pertaining to simulation events, exercises, tasks or test. Before the start of the contest all teams scheduled to participate in competition tasks on that day will be placed in isolation.
- 1.13.2 All members of the team including technical translators and other accompanying persons will also be isolated.









- 1.13.3 No other personnel will be allowed into the isolation area other than those approved by the Chief Judge.
- 1.13.4 The time and location of the isolation area will be announced prior to the competition date.
- 1.13.5 Teams in isolation will not be allowed to communicate with personnel outside of competition organizers by any means: visually, by means of phones, cells, radio, electronic devices, and social media. Posting news or information to social media or other online information sites (eg. Facebook, Twitter) prior to the completion of all competition field events is prohibited. In case of violation or intention to violate these rules, the team will be assigned negative (penalty points) and may be subject to disqualification.
- 1.13.6 Personnel who leave the isolation area will not be allowed to re-enter.
- 1.13.7 Teams that have completed competition field events are not permitted to communicate with any teams that have not yet completed the event.
- 1.13.8 Team members may take reference material into the isolation area. The team member may not use any of this reference material during competition tasks or while completing the theory exam. Contestants will not carry personal notebooks into the contest area.
- 1.13.9 Simulation Lead Judges, Simulation Judges and other competition officials are not allowed to be in contact with any competing team members, in particular to discuss issues related to the competition.

#### 1.14 Competition Task Areas

- 1.14.1 A separate area will be provided for spectators to observe the teams during the competition. Only officially escorted spectators, photographers or news media will be permitted closer to the field exercise as approved by the Chief Judge.
- 1.14.2 All photographs of competition events and tasks will be taken by the designated event photographers. Photographs will be distributed to teams upon completion of the IMRC. Team photographers are permitted, however must stay within the assigned spectator's area.
- 1.14.3 All judges and officials shall be provided with a visible means of identification. No person except designated officials will be permitted to communicate with the teams performing or waiting their turn to do so.
- 1.14.4 Simulation Lead Judges, Simulation Judges or competition officials may not communicate with the competing team members or interfere with tasks unless a health & safety risk is identified.
- 1.14.5 Only Simulation Lead Judges, Simulation Judges or competition officials assigned to each particular competition task are allowed on the competition field for each specific event.
- 1.14.6 Following the field exercise, a brief Simulation Judges meeting will be held to ensure consistency between all of the Simulation Judges of that specific competition task or event.









- 1.14.7 Simulation Judges will complete their respective scorecards.
- 1.14.8 Simulation Judges will provide a written explanation of the merit and negative (penalty) points assigned.
- 1.14.9 After signing the scorecard, a Simulation Judge is not allowed to make any changes to it without consensus with the other Simulation Judges and the Chief Judge.
- 1.14.10 Simulation Lead Judges will collect the scorecards for their specific competition task or event and submit them to the Chief Judge.
- 1.14.11 Simulation Judges will judge in their assigned area only.
- 1.14.12 Simulation Judges must attend the official judges meeting prior to the competition. Following the official judges meeting, Simulation Judges are prohibited from communicating with members or affiliates of the competing teams.

## 1.15 Competition Review/Debrief

1.15.1 Debrief information sessions will be offered on the day following the awards ceremony. Debrief information sessions are for summary purposes only, not for the discussion of scoring or interpretation of actions. Following scoring of team actions by Simulation Judges there will be no appeal process.

## 1.16 Team Requirements

## 1.17 Fitness/Medical Suitability

- 1.17.1 All team members must have a medical assessment completed no more than 12 months prior to the competition. This assessment is to confirm a team member is physically fit, and capable of performing work while using breathing apparatus during Mine Rescue activities. This assessment is to be conducted and authorized by a medical professional.
- 1.17.2 Before the competition begins, medical professionals will confirm the fitness of each team member. No one will be permitted to participate in the team events without having been found physically fit by a medical professional. Personnel with severe colds or other ailments affecting normal breathing are not permitted to wear breathing apparatus upon direction of the medical professional.
- 1.17.3 All individuals participating in the competition must be self-insured in the event of an accident or illness. Each participant will take part in the competition at their own risk and responsibility.

## 1.18 Certificate of Qualifications

1.18.1 Each member of the team must be certified/qualified in Mine Rescue and recovery activities within their jurisdiction of work. In addition, team members must demonstrate the necessary physical and mental abilities to perform Mine Rescue work.









- 1.18.2 In jurisdictions where there is a certifying organization to regulate training, team members must present a certificate of training.
- 1.18.3 In jurisdictions where there is no certifying organization to regulate training, the Mine General Manager (MGM) or equivalent authority will provide a letter of qualification for the participating team members to confirm their proficiency.

## 1.19 Personal Protective Equipment

- 1.19.1 Competing teams must be properly dressed for emergency response simulation exercises with personal protective equipment including protective headwear, chin straps, protective eyewear, high visibility apparel, protective footwear and hand protection.
- 1.19.2 Competing teams must have personal protective equipment (PPE) that meets the requirements specified as follows.
- 1.19.3 Protective Headwear

Hard hats must have a fixture for a cap lamp and a chin strap. Reflective material for hard hats will be silver. Retro-reflective striping must be applied to the front, back and sides.

Hard hats must meet the requirements found in Ontario Regulation 854, Mines and Mining Plants and applicable test requirements for at least a Type 1 Class C approval – impact protective headwear that does not provide dielectric protection.

All hard hats must meet at least one of the following standards:

- a) Canadian Standards Association standard CAN/CSA Z94.1-05, Industrial Protective Headwear Performance, Selection, Care and Use.
- b) American National Standards Institute, standard ANSI Z89.1-2003 Safety Requirement for Industrial Head Protection.
- c) ANSI/ISEA (International Safety Equipment Association) Z89.1-2009

Please note, all hard hats should be affixed with an attachment point for a cap lamp (miner's lamp). Any team unable to obtain such an attachment should notify IMRC 2016 organizers to discuss alternatives.

## 1.19.4 Protective Eyewear

Protective eyewear must be safety spectacles and have permanently affixed side shields. Protective eyewear must fit properly and manufacturer's recommendations for use must be followed. All eye protection must meet one of the following standards:







- a) Canadian Standards Association, standard CAN/CSA –
   07 Eye and Face Protectors.
- b) American National Standards Institute, standard ANSI 03 and/or Z87.1-10.

#### 1.19.5 High Visibility Safety Apparel

Safety apparel must be Class 3, Level 2 coveralls or pants and sleeve shirt with the following features:

- a) Be made of fluorescent background material
- b) The apparel must have retro-reflective striping that measures 50 millimetres in width
- The striping must entirely circle each arm and each leg just below the knee) as well as the waist
- d) The striping must be arranged in two vertical lines on front extending over the shoulders and down to the and be arranged in an X on the back portion covering upper body.
- Team members must have their team number attached to the left arm at the shoulder (starting with team captain, #5 for the vice-captain, #6 for the spare finishing with #7 for the briefing officer)
- f) The apparel must be flame resistant and suitable for exposure to flash fires or short duration flame exposure.

All safety apparel must meet the following standards:

- a) Ontario Regulations 854 Sections 262 (2), 263 (2) and 263 (3)
- b) Canadian Standards Association standard CAN/CSA Z96-09

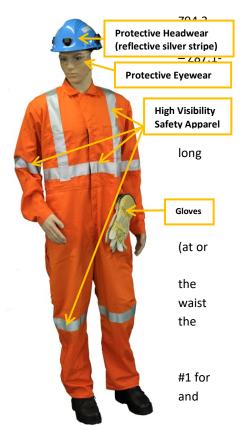
## 1.19.6 Hand Protection

Gloves should provide protection from friction, cuts and punctures. Gloves must be suitable for a variety of tasks that may include rope work, firefighting and the use of a variety of hand tools in underground and surface environments. Different types of gloves may be used in each simulation.

## 1.19.7 Protective Footwear

Protective footwear must be rubber, leather or ballistic nylon. Rubber boots must have metatarsal protection, puncture resistant soles and meet CSA Grade 1 impact requirements. Leather or ballistic nylon boots must be omega rated, have puncture resistant and electric shock resistant soles, integral or external metatarsal protection and meet CSA Grade 1 impact requirements as shown below.

All safety footwear must meet the following standard:











a) Canadian Standards Association standard - CAN/CSA - Z195-09 Protective Footwear



1.19.8 Standard

Personal Protective Equipment

The following items will be supplied during IMRC 2016 field tasks or events:

- a) Cap Lamps
- b) Mine Rescue travel restraint belt
- c) Cap lamp battery pouch (if required)
- d) Link line
- e) Medical examination gloves

## 1.20 Team Equipment

- 1.20.1 Team Supplied:
  - a) PPE as per above
- 1.20.2 IMRC 2016 Supplied:
  - a) Miners belts
  - b) Link lines
  - c) Cap lamps (with pouch)
  - d) Medical examination gloves
  - e) All rescue equipment required for simulations

## 1.21 Official Language

1.21.1 The official language for all of the events and communications will be English. Every effort will be made during competition task planning to minimize any disadvantage to competing teams due to a lack of proficiency in English or the use of a Technical Translator.

## 1.22 Team Demographics

1.22.1 Team Member Requirements – each candidate must be:









- a) A minimum age of 18 years old
- b) In good health and physically fit
- c) Clean shaven, with no facial hair to interfere with the facemask seal
- d) Calm and self-controlled in an emergency or a dangerous event
- e) Known to be of good judgment and initiative
- f) Capable of performing long, arduous and physical labour
- g) Familiar with underground mining conditions and practice
- h) Certified in first aid training
- i) An employee of a mining company/government agency.

## 1.23 Competition - General Rules & Requirements

## 1.24 General Rules

- 1.24.1 There will be a predetermined allotment of time, prior to the day of scheduled competition events, for each team to review the equipment that may be used in the competition(s). This equipment review period will be assigned by competition organizers to coincide with the IMRC 2016 schedule of events.
- 1.24.2 The IMRC 2016 Overall Team Competition will consist of five available scored events. Each team must participate in four of the five available team events to be entered in the Overall Team Competition rankings. Three team events are mandatory with the fourth team event being a choice between one of two events. All of the team events will have a weighted scoring value contributing to the Overall Team Competition scoring as follows:
  - a) Team Underground Mine Rescue Simulation (Mandatory) 40%
  - b) Team Firefighting (Mandatory) 30%
  - c) Team Theory Exam (Mandatory) 10%
  - d) Final Scoring Task 20%
    - 1. (Option 1) Team First Aid
    - 2. (Option 2) Team High Angle Rope Rescue
- 1.24.3 Teams are encouraged to participate in all five events. Their fifth event will not count in the Overall Team Competition score, but will qualify for the awards associated with the individual event.
- 1.24.4 Teams electing not to participate in the Overall Team Competition are still eligible for the awards associated with the individual events in which they participate.
- 1.24.5 Each competing team will be comprised of seven team members:
  - 1. One Incident Commander (Briefing Officer)
  - 2. One Captain
  - 3. One Vice Captain and
  - 4. Four team members.









Upon following registration and prior to the commencement of competition tasks, teams must clearly define the seven individuals selected to compete and those individuals in a non-competing spare or reserve role.

- 1.24.6 Teams may also include a Technician to compete in the individual Technician Competition. All other people travelling with the team will be considered spectators and will be restricted from the competition designated task area. All spectators will be guided to the competition task viewing area.
- 1.24.7 Technical Translators, for the purpose of assisting teams during competition tasks, will <u>not</u> be provided by the IMRC 2016 organizing committee. Technical Translators are in addition to the seven competing team members outlined above. Technical Translator duties are to provide translation only. They may not assist with competition tasks or discuss team actions with competing team members.
- 1.24.8 Technical Translators will have equivalent access to the designated task areas as the competing team members.

#### 1.25 Team Member Substitution

1.25.1 If a medical professional determines that a team member is medically unfit to participate in the event, a substitution will be allowed. The unfit team member will be allowed to switch positions with their spare team member. All substitutions must be approved by the Chief Judge prior to the team leaving isolation.

#### 1.26 Penalties

- 1.26.1 Prior to commencement of each competition problem, a check based on direct observations shall be made to determine whether any of the team members are unfit to participate in the competition task. Where there are reasonable grounds to believe any physical or mental factor renders a team member unfit to compete, the Chief Judge will investigate. If the Chief Judge agrees, the team member will be disqualified and the team may face further penalty up to and including disqualification.
- 1.26.2 The Chief Judge will investigate when there are reasonable grounds to believe that a person has attempted to assist/influence a team by providing information related to any part of the competition, prior to or during a competition problem. If the Chief Judge deems that such a transgression has occurred, the team may face penalties up to and including disqualification.
- 1.26.3 The Chief Judge will investigate when there are reasonable grounds to believe a team or member received information concerning a competition problem. If the Chief Judge deems that such a transgression has occurred, the team may face penalties up to and including disqualification.
- 1.26.4 Information or pictures about the competition cannot be posted to digital communication channels or social media outlets until the awards ceremonies are complete. The Chief Judge will investigate if any team, team member or team representative is found to have posted competition information to digital channels or social media prior to such a time. If the Chief Judge deems that such a transgression has occurred, the team may face penalties up to and including disqualification.









- 1.26.5 The Chief Judge will investigate if any team, team member or team representative causes disruption during the competition. If the Chief Judge deems that such a transgression has occurred, the team may face penalties up to and including disqualification.
- 1.26.6 Any penalty applied will be decided by the Chief Judge. Teams will not be allowed to appeal the decision or penalties assessed. All decisions will be final.

## 1.27 Scoring

- 1.27.1 Examples of performance checklists (scoresheets) with merit/penalty values (scoring points) will be provided to registered teams in advance of IMRC 2016 for training purposes.
- 1.27.2 Interpretation and scoring in each competition event will be pre-determined by IMRC 2016 organizers and agreed upon by Simulation Lead Judges and Simulation Judges in advance of the event and at the judge's precompetition meeting.
- 1.27.3 The Simulation Lead Judge and Simulation Judges for each competition event will discuss each competing team's performance and must reach consensus on the scoring of each task.
- 1.27.4 The Chief Judge will have final oversight on the interpretation and scoring of the actions of the teams. The decision of the Chief Judge may supersede the evaluation of the Simulation Lead Judge and Simulation Judge for that competition task and will be recognized as the final ruling in the event of a disagreement regarding the scoring.
- 1.27.5 Competing teams will not be permitted to appeal the scoring or decisions of the Simulation Judges, Simulation Lead Judges or Chief Judge.
- 1.27.6 The Chief Judge and Simulation Lead Judges shall be the only people in contact with the Scorekeepers.

## 1.28 Debriefing/Information Sessions

- 1.28.1 Competing teams and technicians will be provided with an opportunity for a debriefing information session on the day following completion of the competition awards ceremony.
- 1.28.2 The purpose of the debriefing information session is to provide feedback to all competing teams.
- 1.28.3 At the debriefing information session, competing teams will be provided with the following:
  - a) A scoresheet summarizing the scoring of all competing teams in all tasks
  - b) A copy of their own scoresheets including Simulation Judge written comments and Scribe notes
  - **c)** An opportunity to discuss their actions in the context of the intended competition task requirements.









## 1.29 Competition Task Specific Rules and Guidelines

#### 1.30 General

#### 1.30.1 Format Notes

- All emergency simulations will use live infrastructure including compressed air, water, ventilation, radio communication and ground support.
- All people encountered in underground workings are to be treated as part of the emergency scenario unless visually identified as a Judge
- Order of Competing Teams: Will be drawn by lottery prior to the date of the competition (date to be
  determined). Teams travelling from the same jurisdiction or country will be drawn together and
  complete each task following one another to prevent any potential for information sharing.
- The Chief Judge and Simulation Lead Judge with the assistance of a committee will develop and setup the simulation
- Once developed, the simulation will be sent for an external (Non-Canadian 3rd Party) technical expert review to ensure procedures are realistic
- Where possible any simulations underground that are present will be simulated by an actual means, such as smoke, gas readings, heat etc. When this is not possible, these will be indicated by a visual or symbolic means.
- Simulation victims will be made-up using casualty simulation visual effects to show any injuries

## 1.30.2 Illness/Injury

- Any Mine Rescue Team member (Competitor) that experiences unexpected illness or injury of any form
  during the competition scenario must immediately notify the nearest Simulation Judge who will then
  inform the Lead Simulation Judge.
- Simulation or assignment task "measured time" will be paused during the evaluation of any injuries or illnesses in fairness to the competing team.
- The Simulation Lead Judge will determine whether it is safe for the team member (competitor) to continue with the task, and therefore will also determine whether the Mine Rescue Team may proceed with the remainder of the task. It is the goal of both the IMRC Judges and competing teams to help every team achieve the goal of completing each task, however this will not be done at the expense of health or safety.

## 1.30.3 Equipment Orientation

• Location:

## Lo-Ellen Park Secondary School, Gymnasium 275 Loachs Rd, Sudbury, ON P3E 2P8

- All teams will be allocated a 2-hour Equipment Orientation Session on either Sunday August 21<sup>st</sup> or Monday August 22<sup>nd</sup>
- All teams requiring an English translator must bring their Technical Mining Translator to the equipment orientation
- Where possible, teams will be grouped with other teams speaking the same native language to help utilize translators more effectively.









- Orientation sessions will demonstrate all equipment that may be used during the competition. Some
  equipment demonstrated may not be used, it is the responsibility of teams during each emergency to
  determine what is required.
- Demonstrations will include:
  - o Inspection of equipment
  - Hazards of operating equipment
  - o Proper operating procedure
  - o Proper shutdown procedure
  - o Competitors (Mine Rescue Team) hands-on time
  - Questions

## 2.0 UNDERGROUND MINE RESCUE SCENARIO/SIMULATION

#### 2.1.1 Format

General

- The Underground Mine Rescue Scenario is mandatory for all teams participating in the 2016 IMRC Overall Team Competition.
- Task will be carried out in an inactive underground hard rock (base metal) mine
- Location:

## Vale Mine 114 Orebody

(Coordinates: 46.489239, -81.066171 or 46°29'21.3"N 81°03'58.2"W)

- Mine Maps/Plans will be provided (electronic copies) to teams for reference no later than 1 month prior to the competition.
- Underground photos/video will be provided for simple visual familiarization purposes no later than 1 month prior to the competition.
- Site Surface Photos:

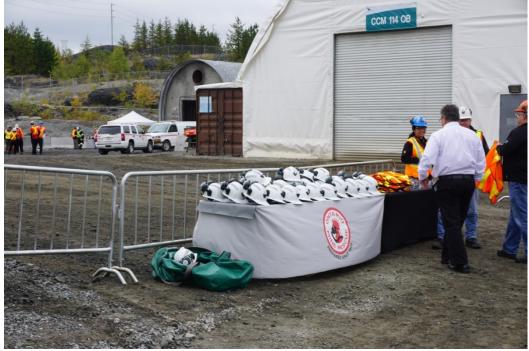


































#### Field Setup

- In the workings of the underground mine (simulation field) it is important for teams to prepare for a
  very different experience than previous International Mine Rescue Competitions. Placards and
  judges will <u>NOT</u> be used to convey information about the condition of any of the below where
  possible. It is the intention of IMRC 2016 to allow teams to interact with the mine environment as
  they would in an underground emergency:
  - Casualties/Victims: Any information pertaining to these individuals must be obtained either through inquiry by the Incident Commander (Briefing Officer) prior to or during the emergency, or through active first aid engagement by the Mine Rescue Team. On both live casualties/victims (actors) and simulated casualties/victims (manikins/dummies) injuries will be displayed visually by makeup/moulage, or through verbal or physical communication.
  - Machines, objects and their state: Equipment and objects are to be interpreted as found. For example, if the scenario calls for the Mine Rescue Team to come upon a piece of running mobile equipment, the equipment will actually be present and running in the mine. In this example, Mine Rescue Teams are to approach such equipment with caution, turn off or remove power to the unit and remove any other hazards before passing or working around the equipment.









- Conditions in headings and the state of ground (rock) support: All travelways used during the competition will adhere to Ontario legislation, best practice and Vale standards with respect to ground (rock) support, and teams will be physically prevented from entering unsupported or unstable areas.
- O Physical hazards: Common hazards such as debris, flooded areas, waste rock, garbage or confined workings will appear in the mine where required. Teams are to interpret whether these areas can be safely navigated, whether work is required to remediate the area for safe work, or whether the hazard is unsafe to pass. For example, a depression in the mine drift resulting in a 1ft deep pool of water can be safely navigated on foot, however a sump area containing 15 ft of water would be deemed impassable unless a means to evacuate the water was present.
- Gas concentrations and/or smoke: Please note, gas concentrations will not be given to Mine Rescue Teams by Judges or via placards. Rather, artificial gas readings will be livetransmitted to gas monitoring devices carried by Mine Rescue Teams. It is the responsibility of the Mine Rescue Team to check the device for gas concentrations where necessary and react appropriately to any alarms that occur.
- Where it is not possible or fair to expect teams to interpret the environment without assistance,
   Mine Rescue Teams will be instructed during Equipment Orientation to look for large symbols or signs in the mine to indicate a specific condition.

#### Fresh Air Base

- Will be situated in an assured supply of fresh air near the place of emergency. May be located on either surface or underground depending on the nature and location of the emergency.
- At the Fresh Air Base there will be 1 member of the team, Incident Commander (Briefing Officer), who will perform the following duties:
  - o Interacting with specialists and leadership of the mine (Control Group)
  - o Communicating with the Mine Rescue Team;
  - Annotating a map of the emergency area including all Mine Rescue Team findings;
  - o Keeping a log-book of emergency operation;
  - Analyzing conditions in the place of emergency in order to prevent complications and ensure safety of team members;
  - Interacting with reserve teams (if necessary);
- Incident Commander (Briefing Officer) at the Fresh Air Base will not have visual contact with the Mine Rescue Team on the field.
- In the case of a performing Mine Rescue Team returning to the Fresh Air Base, the Incident Commander (Briefing Officer) may either assist the Mine Rescue Team or stay at their communication station. When the team leaves the Fresh Air base the Incident Commander (Briefing Officer) must return to their communication station.
- Incident Commanders (Briefing Officers) stationed at the Fresh Air Base do not need to be equipped with their own respirators.
- The Incident Commander (Briefing Officer) may <u>NOT</u> substitute with a Mine Rescue Team member
  once the team has begun the assignment. Accommodations may be made in the event of injury or
  illness as previously specified, though this is not guaranteed and remains at the discretion of the
  Chief Judge.









#### 2.1.2 Equipment

#### General

- Underground rescue teams will be supplied with identical rescue equipment
- Field test and procedures will be provided in advance
- Minimum Equipment Provided by organizers:
  - Self-contained closed circuit breathing apparatus (Drager BG4). Please see section 6.2.5, teams are not required to be proficient in the use of the BG4. If teams have concerns regarding the breathing apparatus, they should contact IMRC 2016 organizers as soon as possible.
  - Electronic Gas monitoring system (Industrial Scientific MX6, Drager x-am 5000, or alternate).
  - o Fully equipped First Aid Kit (Medical bag), rescue basket and spine board
  - o Team member reserve (backup) breathing apparatus
  - Casualty (victim/injured person) rescue breathing apparatus (Portable Resuscitator).
     CAREvent DRA or other.
  - Captain's notebook and/or clipboard including mine maps/plans
  - o Communication devices (eg. Wireless radio)
  - o Firefighting equipment (eg. extinguishers, hose & nozzle, AFFF, etc.)
  - O Cap lamps (miner's lamp). Please note, all hard hats should be capable of attaching such a lamp as specified in 4.3.3
- Minimum Equipment required by Teams
  - Personal protective equipment outlined in section 4.3 of the "Rules Governing IMRC 2016"
     is the responsibility of each team member
  - Team linking device for low-visibility
- Additional/Supplementary Rescue Equipment
  - The Fresh Air Base may be furnished with supplementary rescue equipment (pneumatic lifting bags, hydraulic and pneumatic jacks, scissor expander, rescue rope, pyrometer, thermal imaging (IR) camera, pickaxe, axe, hand saw, etc.) as well as a standby breathing apparatus that can be substituted if one of breathing apparatuses operated by the team is failed
  - The requirement for use of this supplementary equipment will be dictated by the scenario and decision of the Mine Rescue Team. Any equipment likely to be required will be presented to teams during the Equipment Orientation meeting to provide an equal understanding of when the equipment would be required.

#### Failures

When a breathing apparatus operated by a Mine Rescue Team fails for reasons out of the team control (unrelated to misuse or incorrect operation), the time count stops and the defective breathing apparatus is substituted with an functioning unit.

## 2.1.3 Technical Standards

General

No applicable technical standards are required to be studied at this time.









#### 2.1.4 Team Procedures, Roles, Responsibilities

#### General

- Each participating team shall be made up of five rescuers who will be wearing breathing apparatus
  underground, as well as one Incident Commander (Briefing Officer) who will be stationed on
  surface at the Fresh Air Base.
- The team members participating must be registered before leaving isolation
- Teams must explore underground workings without the assistance of any Judges.
- The scope of tasks that must be completed during the simulation include:
  - Team preparation and donning of the breathing apparatuses
  - o Team preparation of standard and auxiliary equipment to be taken underground
  - Establish the teams assignment, which may include but are not limited to the four main priorities of mine rescue and recovery work, both fire and non-fire:

#### Priorities during an Emergency

- 1. Ensure the safety of all Mine Rescue Team members at all times in all situations
- 2. Ensure the safety and safe evacuation of known Casualties (victim/injured persons)
- 3. Fight and eliminate all known fire and combustion related hazards in the underground mine
- 4. Examine the underground mine for concentrations of gas contaminants that prevent the safe operation of the mine and restore proper ventilation when possible.

## Casualties (Victims/Injured Persons)

- Location found must be noted on Captain's map as well as Incident Commander (Briefing Officer)
   map
- All casualties (victim/injured persons) not located in permanent refuge chambers safe from the emergency must be evacuated/transported to the surface Fresh Air Base
- Casualties/victims/injured persons found in contaminated atmospheres must be immediately protected with a rescue breathing apparatus if available for transportation. If no rescue breathing apparatus or self-rescuer apparatus is available, thought must be given to the nearest source of fresh air to temporarily station the individual.

## Mine Maps/Plans

- Two annotated Mine Maps/Plans are to be created during the simulation, one by the Mine Rescue Team and the other by the Incident Commander (Briefing Officer)
- Only information related to the emergency must be noted on the mine maps/plans. The following information must be marked on the map or specified on the Captain's notes
  - o Location of gas and temperature measurements
  - Location of missing persons (victims/casualties)
  - Location of hazards









- Mine Rescue Teams do not need to mark on maps/plans the location of stops to check reserves of
  oxygen and physical condition of rescuers, however the time that these checks occurred must be
  noted on either the map or Captain's notes
- Any infrastructure, including but not limited to compressed air, water, radio, ground support and ventilation that is functioning normally does not need to be specially noted on mine maps/plans
- Any infrastructure, including but not limited to compressed air, water, radio, ground support and ventilation that has been altered, disrupted or destroyed due to the emergency must be noted on the mine maps/plans
- The scenario will be limited to working on the main travel way levels but it may include boreholes, shafts and raises that could influence the ventilation system changes.
- On completing the task, the Mine Rescue Team Captain and Incident Commander (Briefing Officer)
  will be provided time for a short discussion to finalize their mine plans/maps prior to presentation
  to the Judges. Both maps will be compared and evaluated to their similarity and then scored.

#### Hazards

- Any hazard to the safety of the Mine Rescue Team that is encountered in the underground mine
  must be eliminated and reported to the Incident Commander (Briefing Officer) prior to proceeding
  past the hazard. Preventing exposure of the Mine Rescue Team to a life threatening hazard takes
  first priority over any other tasks. Hazards include, but are not limited to:
  - Unsupported ground/rock
  - Explosive concentrations of gas
  - o Live fire
  - Electrical hazard
  - o Flooding
  - o Unsafe/Unsecured equipment
  - o Operating machinery
- If at any time the Simulation Lead Judge feels that a team members safety may be compromised the action will be stopped and re-direct (penalty) points will apply

## Fires

- When a mine rescue team encounters a <u>non-combatable</u> fire it should seal the fire without delay
  and regulate ventilation regime so that to restrict the air flow to the fire and prevent it from
  further advance.
- Fire-fighting rescue actions are carried out with the aim to salvage endangered persons, mitigation of the fire expansion, extinguishing of the fire with use of active or passive measures.
- Active putting out of fires consists in its direct extinguishing e.g. by flooding with water or
  hydraulic filling, use of extinguishing agents (foams, powders), etc. Passive extinguishing consists in
  sealing of the region where the fire has occurred by erection of sealing walls (dams) and, if
  possible, supplying of inert gases to the encapsulated area.
- Fire-fighting rescue actions should comprise actions aimed at active extinguishing of fires while keeping the rescuers on the fresh air side when possible
- Active extinguishing of fires is not allowed under the following conditions:
  - When an explosive concentration of gas is present









- When the atmosphere is too hot to proceed
- When excessively high temperature prevents from application of active methods for extinguishing of the fire in the areas with no methane hazard the rescue team should restrict inflow of air to the fire zone by erection of barricades (dams).
- For zones with the methane hazard where active extinguishing of the fire proves infeasible the
  rescue team should embark on sealing of the fire zone with use of isolating barricades (dams) of
  explosion-proof design.
- Rescuers are prohibited to enter fire zones where the temperature exceeds 60°C.

## Incident Commander (Briefing Officer)

- Prior to (and during) the emergency, an unseen group of mine administrators ("Control Group") will have ultimate authority over the site and emergency response plan. This group has given responsibility for all Mine Rescue Team activity planning to the Incident Commander (Briefing Officer), however at any time they may direct the Incident Commander (Briefing Officer) to change his/her designated plan to align with the overall site emergency response plan. In this way, the Incident Commander (Briefing Officer) reports directly to this group and must obey their instructions when presented, however he/she has the freedom to proceed as they see fit in all other circumstances. During the competition, instructions from this group will be presented to the Incident Commander (Briefing Officer) by a Judge or via phone/radio communications.
- The Incident Commander (Briefing Officer) Simulation Judges will take the Incident Commander (Briefing Officer) into a separate room during the time the pre-use equipment testing by the respective team is being performed. Mine plans and a copy of the emergency narrative (record of events that have taken place up to that point) will be made available to the Incident Commander (Briefing Officer). The Incident Commander (Briefing Officer) may ask any question of the Judge, and any reasonable question will be answered, but a sense of urgency must prevail.
- Care must be taken that the Judge remains available for any questions for exactly the same length
  of time in each case. Sufficient time will then be allowed for the Incident Commander (Briefing
  Officer) to study the mine plans and the narrative.
- The Incident Commander (Briefing Officer) will be responsible for detailing the proposed assignment for the Mine Rescue Team being deployed. This proposed assignment will be evaluated prior to notifying the Mine Rescue Team.
- The Incident Commander (Briefing Officer) Simulation Judges will then present detailed (complete or partial) written instructions to the Incident Commander (Briefing Officer), outlining the mandatory team assignment. This is done to ensure that each Mine Rescue Team begins the task with the same information so that they may be equally judged from that point forward. The Incident Commander (Briefing Officer) and Judges will discuss these instructions to be sure the Incident Commander (Briefing Officer) understands them and the reasoning behind them. Any differences between the Incident Commander (Briefing Officer) plan and mandatory task plan will result in a penalty being applied to the overall scoring.
- The Technical Mining Translator that attends the competition with each team will be stationed
  with the Incident Commander (Briefing Officer) at all times. The Translator will be responsible for
  translating all discussion between the Incident Commander (Briefing Officer), Judges and radio
  communication with the Mine Rescue Team.









#### Ventilation

- Ventilation changes are considered to be any combination of stopping, starting or redirecting the airflow/current within the mine
- Re-direction of the air current should be made by means of erection temporary stoppings, breaking existing ventilation installations, regulating air flow.
- Before changes are made to ventilation, Mine Rescue Teams must receive permission from the Control Group (mine management authority) through a request from the Incident Commander (Briefing Officer).
- It is permitted to change ventilation when all accessible areas have been explored;
- To direct airflow, containing irrespirable gases or explosive air-gas mixture through unexplored areas is strictly prohibited;
- When passing ventilation constructions a team should maintain the existing regime of ventilation;
- Regulating airflow to control a fire is considered as a ventilation change.;
- When breaking a brattice (curtain) irrespirable or explosive gas mixture is not to penetrate beyond barricade;
- While controlling the ventilation system a team should exclude the possibility of penetration air current, containing explosive gas mixture to areas where may exist sites of ignition, sparking or smoldering;
- It is permitted to ventilate unexplored areas provided permission is given to the Incident Commander (Briefing Officer) by the Control Group (mine administration officials)

#### Tasks

- Teams must don their primary breathing apparatus and be under respiratory protection prior to entering any area of known respiratory contamination
- Upon entering an area of known respiratory contamination, a survey of gas concentrations must be taken for the following contaminants:
  - o Carbon Monoxide CO
  - o Methane CH₄
  - o Oxygen − O<sub>2</sub>
- It should be noted, the hard rock mine in which the Underground Simulation is being conducted does not have a history of methane contamination.
- While re-entering the zone where gas testing has already been performed there is no need to perform testing again, provided that ventilation conditions were not changed.
- Upon first entering an area of known respiratory contamination, an apparatus check is required.
- Additional location for air quality (gas concentration) checks include:
  - o At the shaft (or portal/ramp) entrance
  - After crossing a ventilation dam/barricade (in front of and behind the dam) if conditions appear to have changed
  - Locations where victim/casualties are found
  - o First appearance of smoke
  - o Location of fire and after having it put out
  - o Locations where the team carries out tasks
  - Areas of confined space or suspected oxygen deficiency









 Where possible during the Underground Simulation heat will be represented by an actual heated environment. If, during the Underground Simulation, the creation of an actual heated environment is not possible, the simulated conditions of "heat" will be indicated by displaying a symbol such as the following:



- Upon entering an area of elevated ambient temperatures, a survey of climactic conditions must be taken via the following readings:
  - o Dry Bulb Temperature
  - Wet Bulb Temperature
- Temperature readings are used determine the maximum allowable working time for Mine Rescue Teams according to the following chart which will be provided to each team:

Mine Rescue Heat Exposure Standard															
	38								19	19	19	19			
w	37								20	19	19	19	19	19	
	36							22	22	21	20	20	19	19	19
е	35							24	23	22	22	22	21	20	20
t	34						27	26	25	24	23	23	22	22	22
	33						29	28	27	27	26	25	24	23	23
В	32					33	32	31	30	29	28	27	26	26	25
u	31					38	36	35	33	32	31	30	29	28	27
ı u	30				46	44	42	40	38	36	34	33	32	30	30
ı	29				53	50	48	45	43	41	39	38	36	34	32
b	28			63	60	57	55	52	50	47	45	43	41	39	37
	27			72	69	66	63	60	57	54	52	49	47	45	43
T	26		87	83	79	75	72	68	65	62	59	56	54	51	49
e	25		99	95	90	86	82	78	75	71	68	65	62	59	56
_	24	119	114	108	103	99	94	90	85	81	78	74	71	67	64
m	23	*	*	*	118	113	108	103	98	93	89	85	81	77	73
p.		24	26	28	30	32	34	36	38	40	42	44	46	48	50
	Dry Bulb Temp.														

Cross-referencing the Wet Bulb and Dry Bulb temperatures indicates the maximum time exposure in minutes. Exposure limits include time for entry, exit and rest breaks. Exposure limits must not be exceeded.

- Where possible and appropriate for ventilation conditions, smoke will be represented by an actual smoke or low-visibility environment. Smoke or low-visibility environments will be created by mechanically generated smoke to ensure consistent quality.
- When Mine Rescue Teams are travelling in areas of low or zero visibility, teams must link or connect all members to ensure the safety of all members at all times. Linking or connecting in low visibility







must notify all other team members if any team member becomes separated from the team or experiences duress. Teams may link or connect in low visibility in the following ways:

- While carrying the rescue basket, all members are considered linked or connected. If the Captain does not carry the rescue basket, the Captain must be fastened to the rescue basket by some other means.
- Through the use of a linking rope, lanyard, cord, elastic or other device by which all members are connected to one-another. Teams may use the rope, lanyard, cord, elastic or other device that is utilized in their home jurisdiction.
- Teams are not considered linked or connected while holding a rescue basket that is being transported by a rolling cart or vehicle.
- o Teams may disconnect from one another when performing a task (eg. building a ventilation barricade) at a fixed location but must be linked when advancing or returning as a team
- o The act of active firefighting is considered a task as defined above

#### **Team Safety**

- Every 20 minutes the team should stop and the Captain must check the reserve of oxygen in breathing apparatuses of each rescuer, including his/her own, as well as their physical condition.
- If the oxygen reserve in a breathing apparatus of any team member drops below 25% of the initial value, the Captain must report the situation to the Incident Commander (Briefing Officer) and determine the safest plan of action for returning to the Fresh Air Base
- Captain must assist team members in the check of their face mask seal initially upon donning the breathing apparatus and must re-check after travel through confined spaces or ladderways.
- Rescuers must demonstrate a sense of urgency at all times, but are not permitted to run while they travel through the mine simulation

## Captain

- When arriving at an assigned worksite or destination, the Captain must provide feedback to the Incident Commander (Briefing Officer) regarding findings and measurement results.
- Roof of explored workings should be visually checked in the following cases: at locations of fires
  prior to commencements of the fire extinguishing and after having it put out, at each crossing of the
  fire location, at rock falls, prior to erection of a dam (barricade), at the face end and prior to erection
  of props to strengthen roof support of the working. Locations of rock or ground issues must be
  marked on the maps. As the simulation is being conducted in an underground hard-rock base metal
  mine, where active or passive ground support has been installed it shall be considered competent by
  visual inspection.
- Captain should continuously supervise activities of all members of his team during the rescue jobs.
   Captain may participate in jobs assigned to the rescue team unless it restricts his abilities to look after safety of all the team members.
- Mine Rescue Team members are not allowed to go away from the workplace of the team or to carry
  out any jobs without a previous consent of the team Captain.
- When transportation of injured persons via already explored roads proves infeasible they may be evacuated through unexplored workings.









- Prior to crossing a low passage all team members shall take breathing apparatuses off their backs.
   While covering the passage all team members <u>do not</u> need to be connected together by means of a rescue rope. When an injured person on a stretcher is hauled through a low passage it is essential to take extreme care of his safety.
- Rescuers are not allowed to go away from the workplace of the rescue team or to carry out any jobs without a previous consent of the team Captain
- Upon completion of the task and arriving back to the rescue fresh air base the team Captain reports to the Incident Commander (Briefing Officer) that the team is back and outlines how the task was completed with own comments and remarks.
- Only the team Captain may give the order to remove facemasks and request the team remove oxygen once back at the Fresh Air Base

#### Communication

- The rescue team on its way to the location of assigned rescue jobs, during execution of such jobs and on their way back must attempt to remain in in continuous voice communication with the Incident Commander (Briefing Officer). In the event that communication capability is lost while advancing or retreating from the mine, the Mine Rescue Team must return to the last location of functioning voice communication to notify the Incident Commander (Briefing Officer). Mine Rescue Teams may proceed into areas containing no voice communication capability provided the Incident Commander (Briefing Officer) is notified and a strict time limit for return to the communication point is established.
- When voice communication is interrupted because of a known issue, Mine Rescue Teams should attempt to repair the system or seek permission to continue without voice communication.

## 2.1.5 Evaluation Criteria

## Equipment

- Teams will <u>not</u> be evaluated on the pre-use testing (field test) of the primary Mine Rescue Team breathing apparatus (Draeger BG4). This is to ensure fairness for teams that do not use the BG4 within their home jurisdiction. All BG4 breathing apparatus provided to the team may be considered ready-to-wear, at which point teams may don the apparatus as instructed during orientation. In the interest of fairness, all teams are given the opportunity to begin under oxygen on a level playing field, after which time how they perform in the emergency scenario will determine how they are scored.
- Teams will <u>not</u> be evaluated on the post-use service (cleaning & function test) of the primary Mine
  Rescue breathing apparatus (Draeger BG4). This is to ensure fairness for teams that do not use the
  BG4 within their home jurisdiction. All cleaning and service of Draeger BG4 breathing apparatus will
  be done by Draeger personnel.

## Tasks

Competitors (Mine Rescue Team Members) are encouraged to carry out tasks as safely, efficiently
and quickly as they normally would during an actual mine emergency in their home jurisdiction.
 However, because all tasks are being evaluated for completion or quality, competitors must ensure
their activities can be viewed clearly by either an in-person Judge or monitoring camera, or that their









- work can be inspected once the team has left the task area. As often as possible, verbal communication of tasks between Competitors and Judges will not be required or encouraged to remove any disadvantage to non-English speaking teams.
- Simulation Judges will follow the team's progress on the floor and will be responsible for judging proper team procedures.
- Judges will remain in fresh air where possible and if not will be provided with an assured supply of fresh air. Use of thermal imaging cameras for evaluation can be used where conditions allow.
- The underground simulation will be laid out in such a way that teams will be able to navigate through the scenario with little to no assistance from the Judges.
- Unlike previous International Mines Rescue Competitions, where possible the "completion" or tasks will be determined by the Mine Rescue Team rather than a Judge. Teams must balance the efficient and timely completion of a task with the quality required to achieve the goal, as they will be evaluated on both aspects. For example, if an object must be lifted off of a pinned casualty/victim, the Mine Rescue Team may choose to lift only the minimum height required to scrape the person from underneath without supporting or stabilizing the load. This may appear to save time, however the Mine Rescue Team will be evaluated as having done poorly with respect to safety, casualty care and task planning.

#### **Underground Time Limits**

- The underground simulation will have a time limit determined by the Chief Judge and Lead Underground Simulation Judge
- Teams will be advised of the time limit prior to simulation
- Teams will be advised to get out of oxygen once the time limit has expired identifying the end of the problem
- Once the team is directed to get out of oxygen, the team will not qualify for any potential remaining merit points available in the simulation
- The pre-determined time limit will be established to allow teams more than sufficient time to complete the entire problem or task, should they fully understand their objectives and work towards achieving them. It is important to note, the time limit is not intended to be utilized as in previous International Competitions to stop teams from completing the task. The time limit is reserved as a last resort by the Simulation Lead Judge to remove a competing team from the field where they have clearly demonstrated a lack of progress towards the task specific goals. This must be done to ensure the continuation of the competition for remaining teams.

#### Scoring

- The Underground Simulation will be judged using a merit system with "0" being assigned to a task that is not done or skipped. Merits will range between 0-25 depending on the difficulty of the task.
- Scoring of each task will be done by more than one Simulation Judge independently, each from differing Mine Rescue jurisdictions. Following the team moving to the next task, Simulation Judges will create a consensus score based on their observations.
- Where no specific mandatory procedure or guideline for a task is provided in advance of the event,
   teams are encouraged to use the most safe and effective procedure known to them to complete the









challenge. Simulation Judges will reward or penalize teams based on the relative safety and effectiveness of each task.

See additional scoring rules in section 5.4 of "Rules Governing IMRC2016"

#### Completion

 The problem will be considered completed when the Control Group (Judges interacting with Incident Commander) instruct the Incident Commander that the task has been completed. This may occur at any stage of the simulated emergency, regardless of overall completion, as dictated by the conditions and timeline.

#### 3.0 UNDERGROUND FIREFIGHTING SCENARIO

#### 3.1.1 **Format**

#### General

- The Underground Firefighting Scenario is mandatory for all teams participating in the 2016 IMRC Overall Team Competition.
- Task will be carried out in an inactive underground hard rock (base metal) mine
- The Underground Firefighting Scenario will involve the extinguishing of a live fire in an enclosed underground mine environment
- Location:

Underground Research Site
155 Magill Street, Lively, ON, Canada
(Coordinates: 46.432020, -81.124270 or 46°25'55.3"N 81°07'27.4"W)

 Mine plans/maps will be provided to competing teams no later than 1 month prior to the competition date.

Photos:









































































#### 3.1.2 Equipment

#### General

- Underground rescue teams will be supplied with identical rescue equipment
- Any pre-use test checklists (field tests) and procedures will be provided no later than 1 month in advance of the competition
- Minimum Equipment Required:
  - Self-contained closed circuit breathing apparatus (e.g. Dräger BG4 provided)
  - Electronic Gas monitoring system (Industrial Scientific MX6, Dräger x-am 5000, or alternate). Please note, gas concentrations will not be given to teams by judges or via placards. Rather, artificial gas readings will be live-transmitted to gas monitoring devices carried by Mine Rescue Teams. It is the responsibility of the Mine Rescue Team to check the device for gas concentrations where necessary.
  - Temperature Sensor (Kestrel 3500 Weather Meter)
  - o Rescue basket
  - o Team member reserve (backup) breathing apparatus (MSA/Auer SSR 90 M)
  - Captain's notebook, clipboard. Please note, Mine Rescue Team Captains are permitted to bring the data/note recording documents used in their home jurisdiction. Notes not recorded in English must be translated by the team Technical Translator following the completion of the task.
  - Communication devices (eg. Wireless radio)
  - Personal protective equipment as outlined in section 4.3 of the "Rules Governing IMRC 2016"

#### Firefighting Equipment

- Mine Rescue Teams will be supplied with identical firefighting equipment.
- o Firefighting equipment will be available for viewing prior to the competition.









- Extinguishing Agents: Use of mine water/in-line foam solutions/self-contained compressed air foam units/fire extinguishers where applicable
- o Fire hoses will be no longer than 50' each
- Underground mine service water headers will be provided and identified for use where applicable
- Thermal imaging camera will be provided and must be used to determine temperature of fire area
- Low Expansion Foam Fire Suppression
  - Elkhart Brass Model 241 Foam Eductor + Akron Brass Foam Tube Model 766
  - Handbook of Training in Mine Rescue and Recovery Operations, 2014, Ontario Mine Rescue
     P.218
  - http://www.akronbrass.com/95-gpm-brass-in-line-eductor
  - o http://www.elkhartbrass.com/products/foam-eductors/portable/multimedia
- High Expansion Foam Fire Suppression
  - Rockwell Jet-X Water-Powered High Expansion Foam Generator
  - Handbook of Training in Mine Rescue and Recovery Operations, 2014, Ontario Mine Rescue
     P.225
  - o Chemguard Diesel-Powered High Expansion Foam Generator
  - Handbook of Training in Mine Rescue and Recovery Operations, 2014, Ontario Mine Rescue
     P.220
- Firefighting Nozzle Fire Suppression
  - http://www.elkhartbrass.com/products/nozzles/select-o-flow/multimedia
  - o http://www.akronbrass.com/1-1-2-turbojetr-nozzle-with-pistol-grip/
  - Akron Brass 1-1/2" NPSH\* Turbojet Nozzle Model 1715
  - Handbook of Training in Mine Rescue and Recovery Operations, 2014, Ontario Mine Rescue
     P.215
- Firefighting Hose Fire Suppression
  - 50 foot or 100 foot with 1-1/2" NPSH\* Couplers Brass/Pyrolite
  - \* NPSH National Pipe Straight Hose (American Standard Straight Pipe for Hose Couplings), washer seal
- Portable Extinguisher Fire Suppression
  - https://www.ansul.com/en/us/pages/ProductDetail.aspx?productdetail=SENTRY+Industrial
     +Dry+Chemical+Extinguishers
  - https://www.ansul.com/en/us/pages/ProductDetail.aspx?productdetail=SENTRY+Carbon+Dioxide+Extinguishers
  - https://www.ansul.com/en/us/pages/ProductDetail.aspx?productdetail=SENTRY+Water+Extinguishers
  - https://www.ansul.com/en/us/pages/ProductDetail.aspx?productdetail=SENTRY+High-Flow+Stored-Pressure+Fire+Extinguishers
  - https://www.ansul.com/en/us/pages/ProductDetail.aspx?productdetail=SENTRY+Stored+Pressure+Dry+Chemical+Extinguisher+
  - https://www.ansul.com/en/us/pages/ProductDetail.aspx?productdetail=RED+LINE+Cartrid ge-Operated+Hand+Portables%e2%80%94Dry+Chemical









- Fire extinguisher classification and use based on NFPA 10: Standard for Portable Fire
   Extinguishers, National Fire Protection Association Codes and Standards
- Handbook of Training in Mine Rescue and Recovery Operations, 2014, Ontario Mine Rescue
   Pg. 210
- Thermal Imaging Camera
  - http://ca.msasafety.com/Thermal-Imaging/Thermal-Imaging Cameras/EVOLUTION%26reg%3B-5200-Thermal-Imaging-Camera/p/000340000300001251
  - http://www.draeger.com/sites/enus\_ca/Pages/Fire-Services/Draeger-UCF-7000-NFPA-Certified.aspx

#### 3.1.3 Technical Standards

#### General

- Any scenario and associated evaluation will derive core principles from the following reference material:
  - Essentials of Fire Fighting, 6<sup>th</sup> Edition
    - Chapter 5 Fire Behavior
    - Chapter 7 Portable Fire Extinguishers
    - Chapter 16 Fire Stream
    - Chapter 17 Fire Control
- Mine Rescue Team members (competitors) will not be directly exposed to the proximity hazards of a
  direct fire attack. The minimum safe distance from the live fire scenarios will be established by preinstalled barriers or signage. As such, Mine Rescue Team members (competitors) will not require
  personal protective equipment to the standard of structural firefighting and proximity fire fighting.
  NFPA 1851 protective ensembles are not required.
- The minimum standard for personal protective coveralls to be worn by Mine Rescue Team members (competitors) is NFPA 2113: Standard On Selection, Care, Use, And Maintenance Of Flame-Resistant Garments For Protection Of Industrial Personnel Against Short-Duration Thermal Exposures

#### 3.1.4 Team Procedures

#### General

- Each participating team shall be made up of **six rescuers** who will be wearing breathing apparatus underground, as well as one Incident Commander (Briefing Officer) who will be stationed on surface at the Fresh Air Base.
- The team members participating must be registered before leaving isolation
- Mine Rescue Teams will not be allowed to possess reference material after they leave the isolation area
- Teams must explore underground workings without the assistance of any Judges.
- The scope of tasks that must be completed during the simulation include:
  - Team preparation and donning of the breathing apparatuses
  - Team preparation of auxiliary, rescue and firefighting equipment to be taken underground









 Establish the teams assignment, which may include but are not limited to the four main priorities of mine rescue and recovery work, both fire and non-fire:

**Priorities During an Emergency** 

- 1. Ensure the safety of all Mine Rescue Team members at all times in all situations
- Ensure the safety and safe evacuation of known Casualties (victim/injured persons)
- 3. Fight and eliminate all known fire and combustion related hazards in the underground mine
- 4. Examine the underground mine for concentrations of gas contaminants that prevent the safe operation of the mine and restore proper ventilation when possible.

#### Captain

During the simulation the team Captain's role is:

- Supervise and direct while maintaining care and control of all Mine Rescue Team members at all times
- Assess each situation, develop a plan of action independently, or where necessary in consultation with the Incident Commander (Briefing Officer)
- Identify and determine the priorities for Mine Rescue Team members
- Provide direction to other team members

#### **Location Reporting**

 Mine Rescue Teams must, at all times, be assigned a target destination/task and time limit by the Incident Commander (Briefing Officer). The next report to the Incident Commander (Briefing Officer) must come from the assigned destination or following completion of the assigned task.

Casualties (Victims/Injured Persons)

• There will be no requirement to perform First Aid or casualty care during the Underground Firefighting Scenario

#### Mine Maps/Plans

- Only information related to the emergency must be noted on the mine maps/plans.
- Any infrastructure, including but not limited to compressed air, water, radio, ground support and ventilation that is functioning normally does not need to be noted on mine maps/plans
- Any infrastructure, including but not limited to compressed air, water, radio, ground support and ventilation that has been damaged, altered, disrupted or destroyed due to the emergency must be noted on the mine maps/plans

#### Hazards

Any hazard to the safety of the Mine Rescue Team that is encountered in the underground mine
must be eliminated and reported to the Incident Commander (Briefing Officer) prior to proceeding









past the hazard. Preventing exposure of the Mine Rescue Team to a life threatening hazard takes first priority over any other tasks. Hazards include, but are not limited to:

- Unsupported ground/rock
- Explosive concentrations of gas
- Live fire
- Electrical hazard
- o Flooding
- Unsafe/Unsecured equipment
- Operating machinery
- Note: Contaminated ventilation is <u>not</u> considered a life threatening hazard to those wearing an oxygen breathing apparatus
- If at any time the Simulation Lead Judge feels that a team members safety may be compromised the action will be stopped and re-direct negative (penalty) points will apply
- Proper firefighting techniques must be used when in proximity to combustion generated heat. At
  no point in time may a team expose members directly to heat without protection (wide pattern
  water fog heat barrier, physical obstacle, etc). This rule applies while advancing to fight, fighting,
  or retreating from a live fire or heating situation.
- The Chief Judge and Firefighting Simulation Lead Judge will create a no person entry zone
   (immediately around the fire) where no one will enter unless the fire has been extinguished or
   reduced to a manageable level. Allowances will be made for stirring an extinguished fire, checking
   for hot spots, etc.

#### **Underground Time Limits**

- The Firefighting simulation will have a time limit determined by the Chief Judge and Firefighting Lead Simulation Judge
- Teams will be advised of the time limit prior to simulation
- Event will be timed from the initial report of fire observation to the final extinguishment task (if multiple tasks take place).
- Teams will be advised to return to surface once the time limit has expired identifying the end of the problem
- Once the team is directed to get out of oxygen, the team will not qualify for any potential remaining points available in this simulation
- The pre-determined time limit will be established to allow teams more than sufficient time to complete the entire problem or task, should they fully understand their objectives and work towards achieving them. It is important to note, the time limit is not intended to be utilized as in previous International Competitions to stop teams from completing the task. The time limit is reserved as a last resort by the Simulation Lead Judge to remove a competing team from the field where they have clearly demonstrated a lack of progress towards the task specific goals. This must be done to ensure the continuation of the competition for remaining teams.









#### **Tasks**

- Teams must don their primary breathing apparatus and be under respiratory protection prior to entering any area of known respiratory contamination
- Upon entering an area of known respiratory contamination, a survey of gas concentrations must be taken for the following contaminants:
  - o Carbon Monoxide CO
  - Methane CH<sub>4</sub>
  - Oxygen O<sub>2</sub>
- Where possible during the Firefighting Simulation heat will be represented by an actual heated environment. If, during the Firefighting Simulation, the creation of an actual heated environment is not possible, the simulated conditions of "heat" will be indicated by displaying a symbol such as the following:



- Upon entering an area of elevated ambient temperatures, a survey of climactic conditions must be taken via the following readings:
  - o Dry Bulb Temperature
  - Wet Bulb Temperature
- Temperature readings are used determine the maximum allowable working time for Mine Rescue Teams according to the following chart which will be provided to each team:









	Mine Rescue Heat Exposure Standard														
	38								19	19	19	19			
w	37								20	19	19	19	19	19	
	36							22	22	21	20	20	19	19	19
е	35							24	23	22	22	22	21	20	20
t	34						27	26	25	24	23	23	22	22	22
	33						29	28	27	27	26	25	24	23	23
В	32					33	32	31	30	29	28	27	26	26	25
u	31					38	36	35	33	32	31	30	29	28	27
	30				46	44	42	40	38	36	34	33	32	30	30
I	29				53	50	48	45	43	41	39	38	36	34	32
b	28			63	60	57	55	52	50	47	45	43	41	39	37
	27			72	69	66	63	60	57	54	52	49	47	45	43
T	26		87	83	79	75	72	68	65	62	59	56	54	51	49
e	25		99	95	90	86	82	78	75	71	68	65	62	59	56
	24	119	114	108	103	99	94	90	85	81	78	74	71	67	64
m	23	*	*	*	118	113	108	103	98	93	89	85	81	77	73
p.		24	26	28	30	32	34	36	38	40	42	44	46	48	50
						I	Ory B	ulb T	emp						

Cross-referencing the Wet Bulb and Dry Bulb temperatures indicates the maximum time exposure in minutes. Exposure limits include time for entry, exit and rest breaks. Exposure limits must not be exceeded.

- Where possible and appropriate for ventilation conditions, smoke will be represented by an actual smoke or low-visibility environment. Smoke or low-visibility environments will be created by mechanically generated smoke to ensure consistent quality.
- When Mine Rescue Teams are travelling in areas of low or zero visibility, teams must link or connect
  all members to ensure the safety of all members at all times. Linking or connecting in low visibility
  must notify all other team members if any team member becomes separated from the team or
  experiences duress. Teams may link or connect in low visibility in the following ways:
  - While carrying the rescue basket, all members are considered linked or connected. If the Captain does not carry the rescue basket, the Captain must be fastened to the rescue basket by some other means.
  - Through the use of a linking rope, lanyard, cord, elastic or other device by which all
    members are connected to one-another. Teams may use the rope, lanyard, cord, elastic or
    other device that is utilized in their home jurisdiction.
  - Teams are not considered linked or connected while holding a rescue basket that is being transported by a rolling cart or vehicle.
  - o Teams may disconnect from one another when performing a task (eg. building a ventilation barricade) at a fixed location but must be linked when advancing or returning as a team
  - The act of active firefighting is considered a task as defined above

#### **Team Safety**

• Every 20 minutes the team should stop and the Captain must check the reserve of oxygen in breathing apparatuses of each rescuer, including his/her own, as well as their physical condition.









- If the oxygen reserve in a breathing apparatus of any team member drops below 25% of the initial value, the Captain must report the situation to the Incident Commander (Briefing Officer) and determine the safest plan of action for returning to the Fresh Air Base
- Captain must assist team members in the check of their face mask seal initially upon donning the breathing apparatus and must re-check after travel through confined spaces or ladderways.
- Rescuers must demonstrate a sense of urgency at all times, but are not permitted to run while they travel through the mine simulation

#### 3.1.5 Evaluation Criteria

#### General

- There will be a minimum of two Simulation Judges per competing team
- Simulation Judges will be competent in the judging of firefighting simulations
- Simulation Judges will keep accurate start and finish times on the score cards
- The Firefighting Simulation Lead Judge will ensure the firefighting simulation is reset in an identical manner for each team
- Judges will remain in fresh air where possible, or alternatively will be provided with an assured supply of fresh air or self-contained breathing apparatus. Use of thermal imaging cameras by Simulation Judges for evaluation will occur in low visibility areas.

#### Equipment

- Teams will <u>not</u> be evaluated on the pre-use testing (field test) of the primary Mine Rescue Team breathing apparatus (Draeger BG4). This is to ensure fairness for teams that do not use the BG4 within their home jurisdiction. All BG4 breathing apparatus provided to the team may be considered ready-to-wear, at which point teams may don the apparatus as instructed during orientation. In the interest of fairness, all teams are given the opportunity to begin under oxygen on a level playing field, after which time how they perform in the emergency scenario will determine how they are scored.
- Teams will <u>not</u> be evaluated on the post-use service (cleaning & function test) of the primary Mine Rescue breathing apparatus (Draeger BG4). This is to ensure fairness for teams that do not use the BG4 within their home jurisdiction. All cleaning and service of Draeger BG4 breathing apparatus will be done by Draeger personnel.

#### Tasks

- Competitors (Mine Rescue Team Members) are encouraged to carry out tasks as safely, efficiently and quickly as they normally would during an actual mine emergency in their home jurisdiction. However, because all tasks are being evaluated for completion or quality, competitors must ensure their activities can be viewed clearly by either an in-person Judge or monitoring camera, or that their work can be inspected once the team has left the task area. As often as possible, verbal communication of tasks between Competitors and Judges will not be required or encouraged to remove any disadvantage to non-English speaking teams.
- Simulation Judges will follow the team's progress on the floor and will be responsible for judging proper team procedures.









- Judges will remain in fresh air where possible and if not will be provided with an assured supply of fresh air. Use of thermal imaging cameras for evaluation can be used where conditions allow.
- The Underground Firefighting Scenario will be laid out in such a way that teams will be able to navigate through the scenario with little to no assistance from the Judges.

#### Incident Commander (Briefing Officer)

- The Incident Commander (Briefing Officer) Simulation Judges will take the Incident Commander (Briefing Officer) into a separate room during the time the pre-use equipment testing by the respective team is being performed. Mine plans and a copy of a narrative (record of events that have taken place up to that point) will be made available to the Incident Commander (Briefing Officer). The Incident Commander (Briefing Officer) may ask any question of the judge, and any reasonable question will be answered, but a sense of urgency must prevail.
- Care must be taken that the judge remains available for these questions for exactly the same length of time in each case. Sufficient time will then be allowed for the Incident Commander (Briefing Officer) to study the mine plans and the narrative.
- The Incident Commander (Briefing Officer) will be responsible for detailing the proposed assignment for the Mine Rescue Team being deployed. The proposed assignment will then be evaluated before presentation to the Mine Rescue Team.
- The Incident Commander (Briefing Officer) Simulation Judges will then present detailed (complete or partial) written instructions to the Incident Commander (Briefing Officer), outlining the mandatory team assignment. This is done to ensure that each team begins the task with the same information so that they may be equally judged from that point forward. The Incident Commander (Briefing Officer) and Judges will discuss these instructions to be sure the Incident Commander (Briefing Officer) understands them and the reasoning behind them. Any differences between the Incident Commander (Briefing Officer) plan and mandatory task plan will result in a penalty being applied to the overall scoring.
- The Technical Mining Translator that attends the competition with each team will be stationed with the Incident Commander (Briefing Officer) at all times. The Translator will be responsible for translating all discussion between the Incident Commander (Briefing Officer), Judges and radio communication.

#### Scoring

- The Underground Firefighting Scenario will be judged using a merit point system with teams receiving points for each task that is completed or partially completed
- Scoring of each task will be done by more than one Simulation Judge independently, each from differing Mine Rescue jurisdictions. Following the team moving to the next task, Simulation Judges will create a consensus score based on their observations.
- Where no specific mandatory procedure or guideline for a task is provided in advance of the event, teams are encouraged to use the most safe and effective procedure known to them to complete the challenge. Simulation Judges will reward or penalize teams based on the relative safety and effectiveness of each task.
- In the event of a scored tie in the Firefighting Simulation Task the Mine Rescue Team with the faster completion time for all combined related tasks will break a tie









See additional scoring rules in section 5.4 of "Rules Governing IMRC2016"

#### 4.0 FIRST AID SCENARIO

#### 4.1.1 Format

General

Participation in the First Aid Simulation is optional, but encouraged for all participants. As specified in 5.1.2, teams must select which of the two optional scoring events will contribute to their Overall score. They may, however, participate in the non-scoring event in the interests of learning and the potential to win the individual task category.

The 2016 International Mine Rescue First Aid Competition will be scenario based. The scenario will be a multiple patient/casualty/victim incident. It will take place on surface at a mine site. The use of self-contained breathing apparatus will not be required.

Mine Rescue first aid teams will be made up of six team members. The team members participating must be registered before leaving isolation. A team Captain must be appointed.

The Chief Judge and First Aid Simulation Lead Judge with the assistance of a committee will develop and setup the simulation. Once developed the simulation will be sent for medical review to ensure injuries, conditions and treatments are realistic

Simulation victims/casualties will be made-up using casualty simulation art to show any injuries. Mannequins will represent patients with vital signs absent. CPR will be required immediately.

The first aid simulation will be split into two parts:

- 1. Providing first aid to people with various types of injuries and
- 2. CPR with Automatic External Defibrillation and respiratory arrest requiring rescue breathing

Any of the examples listed below may be incorporated in the simulation scenario;

Casualty Management Unresponsive/Conscious, Adult Resuscitation, CPR A + AED, 2 Person CPR, Severe Bleeding, Medical Conditions, Wound Care, Burns, Eye Injuries, Chest Injuries, Multiple Casualty Management, Poisoning, Heat and Cold injuries, Rescue Carries, Bone and Joint Injuries and Head and Spinal Injuries.

#### 4.1.2 Equipment

General

- Mine Rescue first aid teams will be supplied with identical first aid supplies and equipment.
- First aid supplies and equipment will be available for viewing prior to the competition.









- Any pre-use evaluation tests (field tests) and procedures required will be provided no later than 1
  month in advance of the competition date
- Minimum Equipment Required:
  - Fully equipped First Aid Kit, rescue basket and spine board
  - o Casualty (victim/injured person) rescue breathing apparatus
  - Personal protective equipment outlined in section 4.3 of the "Rules Governing IMRC 2016"
     is the responsibility of each team member

#### 4.1.3 Technical Standards

#### General

- The reference material being used develop the scoresheets are as follows;
  - o St. John First Aid, Reference Guide
  - o St. John Ambulance, Medical First Responder
  - Heart and Stroke Foundation of Canada, 2015 Basic Life Support Provider Manual
  - All participating teams should use this reference material to prepare for the first aid competition.
- The minimum level of first aid training expected will be St. John Ambulance Standard First Aid (Mine Rescue Program) or international equivalent.

#### Transparency and Fairness

Teams that are trained by first aid providers other than St. John Ambulance will not be at a disadvantage. With the goal of transparency and fairness St. John Ambulance and Red Cross Instructors are assisting in the development of the scenario. The treatment of all injuries will be reviewed by a medical professional.

#### 4.1.4 Team Procedures, Roles, Responsibilities

#### General

Six competing team members will be expected to;

- conduct a scene assessment,
- perform primary and secondary assessments,
- provide ongoing patient care and
- transportation

Team members will be expected to perform triage;

- To determine the patient's condition and the urgency of the patient's condition
- To assign a priority to the patient's treatment and prioritize transport to an appropriate receiving facility

Team members will be expected to manage all injuries or illnesses found. "Load and Go" or equivalent methodology will not apply.









During the simulation the team captain's role is:

- Assessing the situation and developing a plan of action
- Providing direction to other team members
- Identifying and determining priorities for treatment by team members

#### 4.1.5 Evaluation Criteria

#### General

There will be a minimum of two judges per patient. Judges will be competent in the judging of first aid application. Judges will keep accurate start and finish times on the score card. Judges will interview patients and examine the treatment patients received to determine their final scores. Rough handling, incomplete or poorly done treatment will be scored.

First Aid Simulation Lead Judge will be responsible to ensure the first aid simulation is set up identically for each team

In the event of a tie, the team with the faster overall time to complete the simulation will break a tie. In the event of identical completion times, a determination will be made with respect to the quality of patient care as indicated by the volunteer victim/casualties.

#### Communication

Communication is essential when teams are assessing patients. To minimize language barriers team interpreters should be familiar with first aid terminology. Every effort will be made to evaluate a team's actions rather than spoken word.

#### **Time Limits**

The first aid simulation will have a time limit determined by the Chief Judge and First Aid Simulation Lead Judge. Teams will be advised of the time limit prior to the simulation. The clock will start when the first aid team receives a call requesting a response to a specific emergency. Teams will proceed to the scene as quickly as possible. The clock will stop when the first aid team has completed part 1 and 2 or the time limit has expired. First aid team members must stop when time is called

#### **Judges Instructions**

Scoring: 0 = not done

1 = poor attempt

2 = needs improvement

3 = excellent meets all requirements









- Every line must be scored.
- A score of 0, 1 or 2 must be explained by the scoring Judges or the Chief Judge may reinstate the points due to lack of justification.
- When a score of 3 is applied, comments are encouraged
- If a team runs out of time a score of 0 will apply to remaining actions

#### Rough Handling

- Rough handling negative (penalty) points will be deducted from the total score
- Judges can deduct 1 to 5 points per each patient
- Rough handling negative (penalty) points will have a maximum of 10 points
- Rough handling deductions must be explained by the judges

#### 5.0 HIGH ANGLE ROPE RESCUE SCENARIO

#### 5.1.1 **Format**

General

Participation in the High Angle Rope Rescue Simulation is optional, but encouraged for all participants. As specified in 5.1.2, teams must select which of the two optional scoring events will contribute to their Overall score. They may, however, participate in the non-scoring event in the interests of learning and the potential to win the individual task category.

#### 5.1.2 Equipment

General

Teams will be given an opportunity to become familiar with rope system prior to scenario. A trainer will be made available to answer technical questions.

The following is a list of equipment which will be available for use, for the teams competing in the High Angle Rescue scenario for the IMRC 2016. Teams should become familiar with these systems, in order to best increase their chances to complete a safe and effective rescue.

#### **Pulleys:**

- Rock Exotica/CMC Omni-block singles and doubles
- Rock Exotica Single & Double G-Rated 2" PMP Pulley
- Petzl Kootenay Carriage

#### Primary Anchor Systems (Progress Capture/Raise and Lower Systems/Belay):

- CMC MPD 13mm
- Traverse Rescue 540
- Petzl I'D L
- Rescue Figure 8 with ears









- Conterra Scarab Rescue Tool
- NFPA Rappel 6 Bar Rack
- Tandem Prussiks with a PMP
- Petzl ASAP with the ASAP'SORBER

#### **Prebuilt Haul Systems:**

- CMC ProSeries Aztek, or Rock Exotica Aztek
- Petzl JAG
- CMC CSR2 Confined Space Rescue System

#### **Ascenders:**

- Petzl Ascension handled ascender (left and right),
- Petzl shunt
- Petzl Rescucender
- Gibbs Ascender
- Etriers.

#### **Patient Transport**

- CMC Pickoff strap
- Traverse Advantage Soft Sided Stretcher
- Backboard
- SKED
- Yates A.R.V Air-Lift Rescue Vest

#### **Artificial High Directional:**

Arizona Vortex

#### 5.1.3 Technical Standards

#### General

- Team members must be trained and competent in high angle rope rescue practices.
- Rope rescue team members must wear appropriate Personal Protective Equipment. See Rules Governing IMRC 2016 Section 4.3.

#### 5.1.4 Team Procedures, Roles, Responsibilities

#### General

• Rope rescue teams will be made up of six (6) competing team members.

International Mines Rescue Competition
Since 1999

- Rope rescue team members will check into the isolation area prior to the start of the competition.
- The simulation may utilize both live casualties and/or manikins during this event.
- No persons are to approach open edge without fall restraint or fall arrest safety apparel being worn and properly anchored. This hazard area is to be 2.8 meters or 9 feet from open edge.
- Before ascending or descending, the Simulation Lead Judge or designate will inspect rescuer prior to commencing.









#### Captain

- A team captain must be appointed for the High Angle Rope Rescue competition.
- Captain is responsible for:
  - Assess all risks, develop a plan to ensure the safety of all team members during the scenario and communicate that plan verbally to the Simulation Lead Judge prior to commencing.
  - Ensuring that any team member accessing the life edge of scenario is protected with fall restraint or full fall arrest with proper anchor.
  - Ensuring team members do not proceed with individual tasks while a rescue is taking place without receiving direction from the Captain
  - o Identifying and determining priorities for rope rescue by team members.

#### 5.1.5 Evaluation Criteria

#### General

- The Chief Judge and High Angle Rope Rescue Simulation Lead Judge with the assistance of a committee will develop and setup the simulation.
- The Simulation Lead Judge, Simulation Judge or any field officials can stop competing teams for safety concerns at any time during the rescue scenarios.
- There will be a minimum of two Simulation Judges per competing team.
- Simulation Judges will be competent in the judging of High Angle Rope Rescue simulations.
- Simulation Judges will keep accurate start and finish times on the score card
- The High Angle Rope Rescue Simulation Lead Judge will ensure the simulation is set up identically for each team

#### 6.0 THEORY ASSESSMENT

#### 6.1.1 **Format**

#### General

- A total of three (3) Mine Rescue Team members will participate in the testing. Teams will be notified of the number and position of team members participating prior to the event.
- All testing areas will be secluded and kept quiet as possible during testing.
- No spectators will be present during any testing.
- A single team Technical Translator will be allowed to conduct the testing with each team
- There will be one 20-question exam administered via computer input
- The question format may include pictures, videos or charts
- In the theory exam, teams will have a choice of answers for all questions (Multiple Choice Questionnaire) with only one (1) correct answer for each question.
- Any questions relating to calculations or referencing technical manuals need not be memorized in advance. Copies of notes and an explanation will be provided where appropriate.









Location:

### Cambrian College 1400 Barrydowne Rd, Sudbury, ON P3A 3V8 46.528399, -80.941114 46°31'42.2"N 80°56'28.0"W

Northern Centre for Advanced Technology Inc. 1545 Maley Drive, Sudbury, ON P3A 4R7 46.536479, -80.938823 (46°32'11.3"N 80°56'19.8"W)

#### 6.1.2 Equipment

General

None required

#### 6.1.3 Technical Standards

General

• Any necessary subject matter and reference manuals used for theory testing will be communicated two (2) months in advance of the competition.

#### 6.1.4 Team Procedures, Roles, Responsibilities

General

- The competing team will provide the names of the required team members who will partake in each of the testing scenarios.
- The team member names must be provided at the competition orientation session. Substitutes will only be allowed with proof of injury or illness.
- Three members will compete in the written section.
- The Chief Judge will rule on acceptable team member selections, if so required.

#### 6.1.5 Evaluation Criteria

General

- The Simulation Lead Judge (or designate) will supervise and administer the written test.
- Theory/Knowledge Testing questions found during competition to contain errors or misprinted information will be automatically removed from scoring for all teams competitors.
- During testing, discussions between members of the same competing team will be allowed. Discussions with members of other competing teams will not be permitted.
- Teams will be awarded two (2) points for a correct answer with their first response.
- Teams incorrectly answering on their first attempt will be allowed a 2<sup>nd</sup> attempt and will be awarded one (1) point if correct.
- If both responses are incorrect, the team will score zero (0) points and the correct answer will appear.

[Immediate Feedback Assessment Technique (IF-AT)]









#### Time Limit

- Total time limits will be communicated before the start of the examination.
- Time status will be communicated periodically during the examination with a one (1) minute final warning.
- The theory test will have a maximum of 20 minutes for completion.

Immediate Feedback Assessment Technique (IF-AT)

As previously specified, theory examination questions will be presented with multiple possible answers available for selection. Teams will be notified if their initial answer is incorrect. If the initial answer submitted is incorrect, the team will be given subsequent opportunities to select the correct answer from the remaining choices. Points will be awarded based on the number of attempts required to determine the correct answer. In this manner, Mine Rescue Teams will learn from any errors. Because points are awarded even in the event of an incorrect answer, Mine Rescue Teams have the opportunity to maintain a close gap with other teams rather than falling too far behind.

#### 7.0 TECHNICIAN BENCHING EQUIPMENT MAINTENANCE COMPETITION

#### 7.1.1 Format

General

Each team is allowed to appoint one participant (technician) to compete in maintaining the breathing apparatus. Registration will be made with the team registration.

#### 7.1.2 Equipment

General

PSS BG-4 Plus

Each participant shall be provided with a fully assembled breathing apparatus, a kit of tools, an isolation test kit and a Test-it 6100 for checks and maintenance, liquid for detection of leaks as well as all spare parts that are necessary to carry out the task. During execution of their tasks the participants are allowed to use exclusively the tools and measuring instruments provided by the organizer.

Should any unpredicted defects of the breathing apparatus are revealed during the contest, the referee shall advise the participants that such failures are out of the competition scope. The participant should turn back when only the referee stops the time count. After the defect is remedied the time count shall be restarted and the participant is allowed to carry on his task. When defects are caused by a participant's fault, the time count is not stopped.

If the defect caused by the participant fault prevents from further inspection the participant shall be disqualified.

When any test instrument is damaged by the participant, such a participant shall be disqualified.









#### 7.1.3 Technical Standards

General

PSS BG-4 Plus

#### 7.1.4 Technician Procedures, Roles, Responsibilities

General

The scheduled inspection shall be carried out in accordance with the maintenance manual of the apparatus manufacturer. All items of the inspection are awarded with the score of 0 or 1 point.

All checks must be listed on the inspection sheet in the sequence required by the breathing apparatus manufacturer and accompanied with values test parameters to be indicated by measuring instruments.

Use of incorrect units, e.g. 'bar' instead of 'mbar' shall be considered as error in the specific check and the participant shall score no points for such a check.

If a defect or deficiency is detected the participant should remedy it in the appropriate manner and write down the defect on the inspection sheet.

Failure to write down the detected defect on the inspection sheet shall be considered an omission in seeking for a defect or skipping the inspection item.

The task shall be considered as successfully performed when the breathing apparatus is completely assembled, checked and ready for use.

The participant is allowed to return to remedying defects that have not been eliminated beforehand provided that the assigned time limit is still sufficient.

When the checks are carried out not in line with the sequence prescribed by the maintenance manual the participant shall get no score (zero points) for each such check, even it is carried out correctly.

The overall time limit assigned for completion of the task, i.e. to carry out all checks and remedy all defects and deficiencies shall be 30 minutes. After that time the breathing apparatus should be ready for use. In five minutes prior to expiring of the time limit the referee shall advise the participant that his time limit is just about to expire.

The time count is started by the referee upon the participant appears at the inspection workbench.

If the time limit assigned to complete the competition is exceeded the participant shall be disqualified.









#### 7.1.5 Evaluation Criteria

General

The Technician Simulation Lead Judge and team shall prepare workbenches to carry out the contest. Workbenches shall be assigned to participant by drawing prior to commencement of the contest. Equipment and instruments as well as defects of breathing apparatuses shall be the same on all workbenches for the specific breathing apparatus type.

Technician Simulation Judges shall evaluate performance of participant on the current basis in line with the score card but are not allowed to meddle in execution of tasks by the participants. Upon completion of the task the participant shall hand over his "Breathing apparatus inspection sheet" to the Judge.

The decision of the Technician Simulation Lead Judge is final and binding.

The winner shall be nominated on the basis of the total score granted for correct completion of the scheduled inspection and for detection of deficiencies. The scores shall be granted according to the attached score card, where 1 (one) point shall be granted for each check that shall be carried out correctly and for each defect of deficiency that shall be detected and successfully remedied. Otherwise the participant shall get no score (zero points) for each incorrect check or omitted defect. The deficiencies can also stem from incorrect assembling of the breathing apparatus. When the score of several participants is the same the standing shall be determined against the time of the task completion.









### TECHNICIAN CONTEST - DRAEGER BG-4 Judges' Working Scorecard

Apparatus Serial #	Team No
Test Date	
Visual Inspection	Technician
Low Pressure Alarm	Company
(Negative Pressure Warning)	Company Time
Inhalation Valve	
Exhalation Valve	0 Bug
Drain Valve	1st Bug
Positive Pressure Leak	2nd Bug
Relief Valve	3rd Bug
High Pressure Leak Test	4th Bug 5th Bug
Constant Metering (Dosage) Minimum Valve	Time to Complete Problem
Bypass Valve	Min Sec
Residual Warning	With Sec
Battery Check	<del></del>
Test OK (initials)	Summary of Discounts
Replacement Parts	Written test questions incorrect:
Ready for Use	1 discount x =
	Monthly check not performed:
	5 discounts x =
	Monthly checks out of order:
	5 discounts (total) Deficiency (bug) not found:
	15 discounts x =
	Deficiency (bug) not corrected:
	5 discounts x=
	Sucking/Blowing Valves:
	10 discounts x =
	Apparatus not "Ready for Use":
	5 discounts (total)
	Total Discounts
Tu da a a	









Team No	
Technician	
Company	
Problems Found	Corrected
0 Bug	
1st Bug	
2nd Bug	
3rd Bug	
4th Bug	
5th Bug	
Judge's Signature	
Bench Person's Signa	ture









### DRAEGER BG-4 BREATHING APPARATUS Testing Procedures

STEP	TESTER	PROCEDURE HINTS
	SETTING	
1. Visual Inspection		Check for good
		condition.
2. Insert O_ Cylinder		Fully Charged.
3. Insert Canister		Factory Sealed or
		Reusable.
4. Facepiece and Hoses		Check for good
		condition.
5. Low pressure	Pos. Pres.	Watch pressure gauge,
warning	Pumping	activation should
		sound at 1.25 mbar.
6. Inhalation Valve	Pos. Pres.	Pinch exhalation hose –
	Pumping	10 mbar indicated on
		gauge.
7. Exhalation Valve	Neg. Pres.	Pinch inhalation hose –
	Pumping	10 mbar indicated on
		gauge.
8. Drain Valve	Pos. Pres.	Pump until 10mbar is
	Pumping	indicated on gauge.
		Fit sealing cap over
		tappet of relief valve as
		bag inflated.
		Drain valve must not
		open at 10 mb.
9. Leak Test	Leak Test	Reduce Pres. to 7 mbar
		pressure should not
		change by more than
		1 mbar in 1 minute.
10.Relief Valve	Pos. Pres.	Pump until relief valve
	Pumping	opens.
		Opening pressure,
		should lie between 2 &
		5 mbar.









### (Alternate Relief Valve Test, can be performed after Step 14.)

STEP	TESTER	PROCEDURE HINTS
	SETTING	
11. High Pressure Leak	Leak Test	Open cylinder valve. Alarm sounds
		once.
		CCR (Close Cylinder).
		Alarm sounds once, green indicator
		flashes.
		OCR (Open Cylinder)
12. Constant Metering Valve	Pos. Pres.	Inflate breathing bag.
	Pumping	Fit sealing cap over tappet of relieve
		valve.
	Dosage	Constant metering dosage should lie
	.05-2 L/min	between 1.5 and 1.9 L/min.
13. Minimum Valve	Neg. Pres.	Pump slowly until minimum valve is
	Pumping	opening.
		Minimum Valve should open
		between 0.1 and 2.5 mbar.
14. Bypass Valve	Leak Test	Press red button.
		Breathing bag inflates.
(Alternate Relief Valve Test)		Observe Reading on tester, relief
		valve should open between 2 and 5
		mbar.
15.	Low Pressure	Close cylinder valve.
	Warning	Warning sounds at 55 bar.
16.	Battery Check	If Failing:
		Alarm sounds 5 Times.
		Red indicator flashes for 30 sec.
		Bat is displayed.









### BG4 FUNCTION TEST RECORD UNIT#

Function Test Date (month as Jan – Dec)	mmm/dd/yy		
First initial, last name of technician			
Visual Inspection (incl. belt & lanyard)	OK/Repaired		
O <sub>2</sub> Cylinder Hydrostatic Test	OK/Replaced		
Face Mask Inspection	OK/Repaired		
Low Pressure Warning	<1.4 mbar		
Inhalation Valve	OK/Repaired		
Exhalation Valve	OK/Repaired		
Moisture Relief Valve	>15 mbar		
Positive Pressure Leak	OK/Repaired		
Pressure Relief Valve Activation	2-5 mbar		
O <sub>2</sub> Cylinder Pressure	>185 bar		
Constant Dosage Rate	1.5-1.9L/min		
Minimum Valve Activation Pressure	.1-2.5mbar		
Bypass Valve	OK/Repaired		
Low Pressure Alarm	55 bar		
Battery Test	OK/Repaired		
Date battery to be replaced	mmm/dd/yy		
Date soda lime to be replaced (6 months)	mmm/dd/yy		
Unit sealed and dated	Y/N		









# APPENDIX A1 – UNDERGROUND MINE RESCUE SCENARIO/SIMULATION











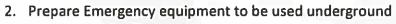
TEAM: China - Pingmei Senma

Time Under O2	1hr	54 min	20 sec
---------------	-----	--------	--------

Time Casualty at F/A \_\_\_\_\_

### **MERITS**

1. Team to be briefed by Briefing Officer	VM 0−51 ≤
a. Information Available	0-2
b. Missing People Underground	0-2
c. Actions Taken So far	0-2 0
d. Team Assignment	0-2_2
e. Route of travel	0-2
f. Reserve Mine Rescue Teams	0-2
g. Expected Conditions	0-2_0
h. Mine Rescue Equipment available	0-2
i. Transportation available	0-2こ
j. Location of First aid	0-2_2
k. Communication Method	0-2 0
I. Synchronize Watches	0-2 2
m. Establish Time Limits	0-2 2



a.	Gas checking equipment	0-3_	2
b.	First Aid Supplies	0-3_	3
c.	Back up apparatus for team	0-5_	5
d.	Maps, note pad	0-5	5 -
e.	Basket/Backboard	0-3_	3
f.	Casualty Breathing Apparatus	0-5_	5
g.	Firefighting equipment	0-5_	5_



- 3. Prepare team breathing apparatuses
  - a. Perform high pressure leak test
  - b. Install Ice
  - c. Anti fog mask

- 0-10\_/0
- 0-5\_5
- 0-5\_5

4. Team under oxygen outside of Fresh Air Base

0-10\_/O\_

5. Verify breathing apparatus is functioning properly

0-10 /0

- 6. Ensure Toyota operator is wearing breathing apparatus
- 0-5<u>Z</u>

- 7. Contact BO
  - a. Time Limit
  - b. Destination
  - c. Time Team under 02

- 0-2\_0
- 0-2<u>0</u>
- 0-2<u>-</u>

8. Board Toyota in a safe manner

0-5\_\_\_\_\_

9. Enter mine via Portal

0-5\_5\_

10. Stop inside of portal

0-5\_5\_





### 11. Evaluate Conditions

11. Evaluate Colluitions	b.	Smoke CO Radio	0-2 2 0-2 2 0-2 2	
			7	_
12. Perform Team Check	=			,
	d.	BG4 functioning	0-5	_
	e.	Team OK	0-5 <u>Ø</u>	
	f.	BG4 functioning Team OK Record info	0-5 <u>Ø</u>	_
13. Contact BO via radio				
a. Report Conditions			$_{0-3}$ 3	
b. Team Status			0-3 <u>3</u> 0-2 <u>2</u>	_
14. Proceed down ramp via Toyota			0-5_5	
15. Locate unconscious Truck Operator		A movement in	0-20	<u>0</u>
16. Contact BO via Radio				_
a. Report Truck operator located			$ \begin{array}{c cccc} 0-5 & 5 \\ 0-3 & 3 \\ 0-2 & 2 \\ 0-2 & Z \end{array} $	_
b. Report Conditions			0-3_3	
c. Time Limit			0-2 <u>Z</u>	_
d. Destination			0-2 <u>Z</u>	
e. Team Status			0-10_6	۷_

Revised: May 2016

Page | 3 of 11





a. Airway b. Breathing c. Circulation d. Gross Bleed Check  18. Protect Casualty from further contamination  19. Identify as Load and Go  OR  Perform First Aid (Secondary)	0-3 <u>3</u> 0-3 <u>3</u> 0-3 <u>6</u> 0-3 <u>3</u> 0-5 <u>5</u>
c. Circulation d. Gross Bleed Check  18. Protect Casualty from further contamination  19. Identify as Load and Go  OR	0-3 <u>6</u> 0-3 <u>3</u> 0-5 <u>5</u>
d. Gross Bleed Check  18. Protect Casualty from further contamination  19. Identify as Load and Go  OR	0-3 <u>3</u> 0-5 <u>5</u>
18. Protect Casualty from further contamination  19. Identify as Load and Go  OR	0-5_5
19. Identify as Load and Go OR	
19. Identify as Load and Go OR	
OR	0-18/8
Perform First Aid (Secondary)	
a. Check head, eyes, ears	0-2
b. Check neck and throat	0 – 2
c. Check arms (left and right)	0-4
d. Check Torso (front and Sides)	0 – 2
e. Check Pelvis	0 – 2
f. Check Legs and Feet (left and right)	0 – 4
g. Check Back	0 – 2
19. Load casualty into stretcher	0-10/0
·	
20. Transport Casualty to First Aid (surface)	0-10 /0





21	Contact	RO f	rom	EAR
Z1.	Contact	BU I	rom	T/XD

- a. Report Casualty turned over to F/A
  b. Report Toyota is no longer available
  c. Time Limit
  d. Destination
- 0-2 0-2 0-10

0-5\_\_\_\_

22. Travel to Truck location via Ramp Portal

0-5\_\_\_\_

### 23. Ensure Truck is safe to pass

e. Team Status

a. Wheel Chocksb. Master Switch

0-5 0-5

24. Proceed to 3930 Sill Ore pass

0-5\_5

#### 25. Contact BO

a. Report Conditionsb. Time Limit to Build wallc. Report Increase in Temperature

0-3 <u>3</u> 0-2 <u>2</u>

d. Team Status

0-3 3

#### 26. Fabricate Wall

a. Wall Completed within Time limit (20 min)b. Construction materials used are sufficient

0-20\_20

c. Construction Method Sufficient

0-10 /O

d. Construction work evenly shared

0-10 /0



27 Conta	et BO	
27. Contact BO		0-3
	Report Conditions	0-5_5
	Report Status of Wall Time Limit	0-3
		0-2
	Destination	0-2
e.	Team Status	0-10 <u>70</u>
		N.
28. Travel	to 150 L Refuge Station	0-5 <u>5</u>
29. Conta	ct Construction Miner	
a.	Perform verbal Primary	0-5
b.	Obtain info about his partner	0-5 5
C.	Place miner in a safe location (ie Refuge Station)	0-10_6
30. Conta	ct BO	т.
a.	Report Conditions	0-3
	Report Status of Construction Miner	0-5 0
	Time Limit	0-2
d.	Destination	0-2_0
e.	Team Status	0-10_0
74 T	Lan DV some via 4210 Court V succes	0-5_5
or itave	to RV ramp via 4210 Spur X-over	U-5
32 Locate	e Injured Construction miner at DS7	0-20 20

33. Contact BO via Radio



a.	Report Construction Miner located	0-5
b.	Report Conditions	0-3/
c.	Time Limit	0-2_2
d.	Destination	0-2_0
e.	Team Status	0-10_0
The state of the s		like #
2//		
34. Ensur	e Scoop is safe	
a.	Wheel Chocks	0-5_
b.	Master Switch	0-5
742		
35. Perfo	rm First Aid (Primary)	reference links in the
f.	Airway	0-3_3
g.	Breathing	0-3_3
h.	Circulation	0-3_3
25 i.	Gross Bleed Check	0-3/

37. Identify as Load and Go

36. Apply oxygen to casualty

0-18\_\_\_/3

0-5\_5\_

### OR

### 38. Perform First Aid (Secondary)

- j. Check head, eyes, ears
- k. Check neck and throat
- I. Check arms (left and right)
- m. Check Torso (front and Sides)
- n. Check Pelvis

0-2\_\_\_\_

0-2\_\_\_\_

-4

0-2\_\_\_\_

0-2\_



0,	Check Legs and Feet (left and right)	0-4	
p. Check Back		0-2	
	id Treatment	11	
	Put on medical gloves	0-54 0-20 <u>/5</u> 0-108	
d.	Support Casualty in position found	0-20	
e.	Control bleeding	0-10 <u>8</u>	
f.	Support Embedded object in position found	0-53_	
40. Locate	e rescue tools (eDraulics)	0-10	
41 Ensur	e tools are safe to use	0-5_5	
12. 211301			
W.			
42. Cut Ca	asualty Free	0-10_/0	
	Once Casualty is cut free		
ø	Place casualty on their side in the basket	0-20 20	
	Recheck vitals	0-20 <u>20</u> 0-5 <u>0</u>	
	Evacuate casualty to surface	0-20	
- 10	Lvacuate casualty to surface	0-20 <u>-79</u>	
		25.000 13.13	



43. Contact BO		
a. Report Casualty turned over to F/A	0-55	
b. Time Limit	0-2	
c. Destination	0-2	
d. Team Status	0-10	
44. Get Team out of O₂	0-10	
Miscellaneous:		
	Demerit:	
Extreme unsafe action:	Max (-25)	
Extreme poor casualty Care:	Max (-20 per casualty)	
CANTAN	H 9816	
Damage to Mine Rescue Equipment:	Max (-5 per item)	

Revised: May 2016

Page | 9 of 11





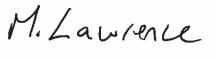
	THE RESERVE AND	
	The state of the s	The second secon
Total Control of the		
4 P. C.		
20128653.300		
		-3
WW NA 55-5 35-55-10-15	1.1.1.1.12 = 1000 5 USF Park	
2 200 (ACC) 11 12 12 12 12 12 12 12 12 12 12 12 12		
and the state of t		
10 111001 000		
-		
- ATTA		
	S 0.1 (fet -8)(6)(1)(8)	35.0
2 4		



Team Number	Tuesday August 23rd, 2016	
1	Canada 2	Vale Manitoba Operations
2	Canada 2	Sudbury Basin Cobras, KGHM
3	Canada 2	Vale Sudbury West Mines
4	USA	MSHA Mine Emergency Unit No.1
	Break	Break
5	Russia	EMERCOM
6	Russia	JSC SUEK
7	India	Singareni
8	≀ndia	Coal India Ltd.
9	Vietnam	Vinacomin
10	Slovakia	НВР
11	Australia	Peabody Energy Wambo Coal
12	Multinational	Goldcorp Americas
13	Canada 1	Agnico Eagle Goldex Mine
	Break	Break
14	Canada 1	Compass Minerals Goderich Mine
15	Canada 1	Cameco McArthur River
16	Canada i	Kirkland Lake Gold
17	Columbia	Colombia Coal Company
18	Columbia	Fiebre del Oro (Gold Fever)
19	Ukraine	State Militarized Mine Rescue Squad
20	China	Guizhou Yonggui Energy Company
21	China	China Pingmei Senma Group
22	China	Shaanxi Coal and Chemical Group
	Break	Break
23	Poland	Bytom Weglokoks
24	Poland	Scorpions Team Katowice
25	Poland	Gray Wolfs
26	Poland	KGHM White Eagles
27	treland	Boliden Tara Mines

				*.

#### #21 china U/G SCENARIO





Time Under O2 Time Casualty at F/A **MERITS** 0-5\_\_\_\_ 1. Team to be briefed by Briefing Officer 0-2\_\_\_\_ a. Information Available 0-2\_\_\_\_ b. Missing People Underground 0-2\_\_\_\_ c. Actions Taken So far 0-2\_\_\_\_ d. Team Assignment e. Route of travel 0-2\_\_\_\_ 0-2\_\_\_\_ f. Reserve Mine Rescue Teams 0-2\_\_\_\_ a. Expected Conditions 0-2\_\_\_\_ h. Mine Rescue Equipment available 0-2\_\_\_\_ i. Transportation available i. Location of First aid 0-2\_\_\_\_ 0-2\_\_\_\_ k. Communication Method 0-2\_\_\_\_ I. Synchronize Watches m. Establish Time Limits 0-2\_\_\_\_ 2. Prepare Emergency equipment to be used underground a. Gas checking equipment 0-3\_\_\_\_\_ 0-3\_\_\_\_ b. First Aid Supplies 0-5\_\_\_\_\_ c. Back up apparatus for team 0-5\_\_\_\_ d. Maps, note pad e. Basket/Backboard 0-3\_\_\_\_ 0-5\_\_\_\_ f. Casualty Breathing Apparatus g. Firefighting equipment 0-5\_\_\_\_



3.	Prepare team breathing apparatuses	
	a. Perform high pressure leak test	0-10
	b. Install Ice	0-5
	c. Anti fog mask	0-5
4.	Team under oxygen outside of Fresh Air Base	0-10
5.	Verify breathing apparatus is functioning properly	0-10
5.	Ensure Toyota operator is wearing breathing apparatus	0-5_
7.	Contact BO	
	a. Time Limit	0-2_
	b. Destination	0-2_
	c. Time Team under 0 <sub>2</sub>	0-2_
8.	Board Toyota in a safe manner	0-5_
9.	Enter mine via Portal	0-5
10.	Stop inside of portal	0-5
		ne para Juan

Revised: May 2016



11. Evaluate Conditions			
	a.	Smoke	0-2
	b.	CO	0-2
	c.	Radio	0-2
			ASI
Washington and appropriate to the property of			
12. Perform Team Check			
	d.	BG4 functioning	
		Team OK	
	f.	Record info	0-5
13. Contact BO via radio			
a. Report Conditions			0-3_
b. Team Status			0-2
Alleria IIII.			
14. Proceed down ramp via Toyota			0 - 5
15. Locate unconscious Truck Operator			0 - 20
13. Educate unidensitions in den Operator			
16. Contact BO via Radio			
a. Report Truck operator located			0-5
b. Report Conditions			0-3
c. Time Limit			0-2
d. Destination			0-2
e. Team Status			0-10



check	0-3 0-3 0-3 0-3
Check	0-3
Check	0-3
Check	0 = 2
e V alle skie Ve	073
n further contamination	0-5
Go	0-18
OR	
econdary)	
eyes, ears	0-2
nd throat	0-2
eft and right)	0-4
front and Sides)	0-2
	0-2
nd Feet (left and right)	0-4
	0-2
retcher	0-10
	Go OR econdary) eyes, ears nd throat eft and right) front and Sides)



21. Conta	ct BO from FAB		
a.	Report Casualty turned over to F/A	0-5	
b.	Report Toyota is no longer available	0-3	
c. Time Limit d. Destination		0-2	
		0-2	
е.	Team Status	0-10	
22. Trave	l to Truck location via Ramp Portal	0-5	
22 Encur	e Truck is safe to pass		
	Wheel Chocks	0-5	
=	Master Switch	0-5 0-5	
	Wilder Switch		
24. Proce	ed to 3930 Sill Ore pass	0-5	
25. Conta			
	Report Conditions	0-3	
	Time Limit to Build wall	0-2	
	Report Increase in Temperature	0-3	
d.	Team Status	0-10	
26. Fabric	ento Wail		
	Wall Completed within Time limit (20 min)	0 – 20	
a. b.		0-10	
D. C.		0-10	
	Construction work evenly shared	0-10	

# # 21 China U/G SCENARIO



27. Contact BO	A An
a. Report Conditions	0-3
b. Report Status of Wall	0-5
c. Time Limit	0 – 2
d. Destination	0-2
e. Team Status	0-10
28. Travel to 150 L Refuge Station	0-5
	EFERRING TO
20. Contact Construction Minor	
29. Contact Construction Miner	
a. Perform verbal Primary	0-5
b. Obtain info about his partner	0-5
c. Place miner in a safe location (ie Refuge Station)	0-10
30. Contact BO	
a. Report Conditions	0-3
b. Report Status of Construction Miner	0-5
c. Time Limit	0-2
d. Destination	0-2
e. Team Status	0-10
31. Travel to RV ramp via 4210 Spur X-over	0-5
32. Locate Injured Construction miner at DS7	0-20 20
No Delay	
ised: May 2016 Page   6 of 11	Workplo

### #21 China



33. Contact BO via Radio  a. Report Construction Mine b. Report Conditions c. Time Limit d. Destination e. Team Status			0-5 0-3 1 0-2 2 0-2 0-10	
Didn't box @ gas Mo	nitur/No to	am checks	/was g	0: ng 10
34. Ensure Scoop is safe  a. Wheel Chocks  b. Master Switch			90 a 1-5 0 1-5 0	lown K 
	16.5			
35. Perform First Aid (Primary)  f. Airway g. Breathing h. Circulation i. Gross Bleed Check  Partial Wef	ec K		0-3 3 0-3 3 0-3 1	
37. Identify as Load and Go			0-18	
	OR			
38. Perform First Aid (Secondary) j. Check head, eyes, ears k. Check neck and throat l. Check arms (left and right m. Check Torso (front and Sic n. Check Pelvis  Revised: May 2016	•	ZUI	0-2 0-2 0-4 0-2 0-2	
	-0-1		Safety I	√orth−

### #21 China



	o. Check Legs and Feet (left and right)	0 – 4
	p. Check Back	0-2
	Finished @ 4:15	
	Avg. F/A	
	39. First Aid Treatment	//
	c. Put on medical gloves	0-5
	d. Support Casualty in position found	0-20_/5
	e. Control bleeding	0-10
	f. Support Embedded object in position found	0-53
port	For one cut only, one guy no gloves.	Told to better sapp
	40. Locate rescue tools (eDraulics)	0-10
	41. Ensure tools are safe to use	0-5_5_
	42. Cut Casualty Free	0-10 /5
	Cut Casualty down quickly 2.	2:00
	Once Casualty is cut free	
		2.
	g. Place casualty on their side in the basket	0-20 00
	h. Recheck vitals	0-5
	i. Evacuate casualty to surface	0-20
	0.0	
	Tried to go down KI (	0 +: 18 t



3. Contact BO  a. Report Casualty turned over to F/A	0-5
b. Time Limit	0-3
c. Destination	0-2
d. Team Status	0-10
4. Get Team out of O₂	0 – 10
Miscellaneous:	
	Demerit
Extreme unsafe action:	Max (-25)
Extreme poor casualty Care:	Max (-20 per casualty)
AN MATHER	7 0010
Damage to Mine Rescue Equipment:	Max (-5 per item)



A CONTROL OF THE PROPERTY OF T
AND THE PLANT PLANTS AND PROPERTY.
Expension and the second representation of the second
W - DA PA BA BA BA - DER BELL
COLALVILLOLA LIVE TO

Revised: May 2016



Team Number	Tuesday A	ugust 23rd, 2016
1	Canada 2	Vale Manitoba Operations
2	Canada 2	Sudbury Basin Cobras, KGHIM
3	Canada 2	Vale Sudbury West Mines
4	USA	MSHA Mine Emergency Unit No.1
	— Break —	8reak
5	Russia	EMERCOM
6	Russia	JSC SUEK
7	India	Singareni
8	India	Coal India Ltd.
9	Vietnam	Vinacomin
10	Slovakia	НВР
11	Australia	Peabody Energy Wambo Coal
12	Multinational	Goldcorp Americas
13	Canada 1	Agnico Eagle Goldex Mine
	Break	Break
14	Canada 1	Compass Minerals Goderich Mine
15	Canada 1	Carneco McArthur River
16	Canada 1	Kirkland Lake Gold
17	Columbia	Colombia Coal Company
18	Columbia	Fiebre del Oro (Gold Fever)
19	Ukraine	State Militarized Mine Rescue Squad
20	China	Guizhou Yonggui Energy Company
21	China	China Pingmei Senma Group
22	China	Shaanxi Coal and Chemical Group
	— Break —	Break
23	Poland	Bytom Weglokoks
24	Poland	Scorpions Team Katowice
25	Poland	Gray Wolfs
26	Poland	KGHM White Eagles
27	treland	Boliden Tara Mines

NAME OF STREET OF STREET STREET, STREET STREET, STREET STREET STREET, STREET STREET, STREET STREET, STREET STREET, STREET STREET, STRE

#21 China -gas check (Didn't look @ monitor)
- gloves v (one gry didn't) - top support (one hand not tight) - bottom Support ? - expose injury -took his boots off - wheel chocks /master (NO) - test tool (No) - cut hole in triangle and wrapped around budy with roller gauze underneath - Wet check (partial) - straddle casualty to lift

- good blanket application (completely around him)

- supported casualty but told to by judge

- Used roller gauze to the blanket/cas. down. - Applied CV -04:15



TEAM: CHINA PINGMEI SENMA GROUP #21

Time Under O <sub>2</sub>	Time Casualty at F/A
al team time 1:54:20	MERITS
1. Team to be briefed by Briefing Office	
a. Information Available	0-2
b. Missing People Underground	d 0-2
c. Actions Taken So far	0-2
d. Team Assignment	0-2
e. Route of travel	0-2
f. Reserve Mine Rescue Teams	
g. Expected Conditions	0-2
h. Mine Rescue Equipment ava	
i. Transportation available	0-2
j. Location of First aid	0-2
k. Communication Method	0-2
I. Synchronize Watches	0-2
m. Establish Time Limits	0-2
2. Prepare Emergency equipment to b	oe used underground
a. Gas checking equipment	0-3
b. First Aid Supplies	0-3
c. Back up apparatus for team	Married Company of the Company of th
d. Maps, note pad	0-5
e. Basket/Backboard	0-3
f. Casualty Breathing Apparato	
g. Firefighting equipment	0-5



Prepare team breathing apparatuses     a. Perform high pressure leak test     b. Install ice     c. Anti fog mask	0-10 0-5 0-5
(a). Team under oxygen outside of Fresh Air Base	0-10_{0
5. Verify breathing apparatus is functioning properly  tour was with FAB Judges	0-10
6 Ensure Toyota operator is wearing breathing apparatus	0-5
(f) Contact BO	
a. Time Limit	0-2
b. Destination	0-2
c. Time Team under 0 <sub>2</sub>	0-2
8 Board Toyota in a safe manner	0-5_5_
Enter mine via Portal	0-5 5
Stop inside of portal	0-5_5
CANADAZ	V16

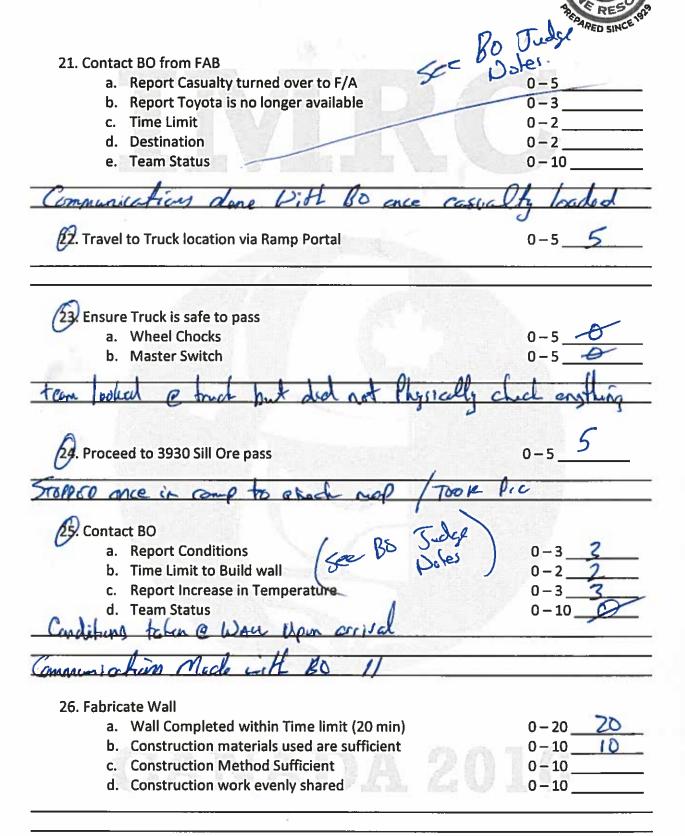


(1). Evaluate Conditions				-
	a.	Smoke	0-2_	2
		CO	0-2_	2
Conditions tehen inside Portal	C.	Radio	0-2_	2
anditions tehen inside for fal	Ч.	3 13	-Ally	
Cestrel reachings taken				
Perform Team Check				24
	d.	BG4 functioning	0-5_	5
	e.	Team OK	0-5_	0
	f.	Record info	0-5_	0
13. Contact BO via radio			L	-
a. Report Conditions			0-3	3
b. Team Status			0-2	_2_
omnunications done , Estrel		my reported	122	0.0
productions done; periter 1	econ	my reported	(1)	
⚠. Proceed down ramp via Toyota			0-5	5
6. Locate unconscious Truck Operator			0 - 20_	26
(1) Contact BO via Radio				
a. Report Truck operator located			0-5_	5
b. Report Conditions				3
c. Time Limit			_	Amil (160/00)
d. Destination				
e. Team Status			-	
anditions taken e task &!				
Communication and with BO'		and the second second		
	E	"声目目目		

Revised: May 2016



17. Perform First Aid (Primary)	
a. Airway	0-3
b. Breathing	0-3
c. Circulation	0-3
d. Gross Bleed Check	The state of the s
Shock Casualty attempted to make verbal contact	+. /
18 Protect Casualty from further contamination Case Vect	0-5_5
TEAM ATTEMPTED TO START CPR on Casually #1	STOPPED BY
19. Identify as Load and Go Judges	0-18
OR	
Perform First Aid (Secondary)	
	0-2
b. Check neck and throat	0-2
a. Check head, eyes, ears b. Check neck and throat c. Check arms (left and right)  #/	0-4
d. Check Torso (front and Sides)	0-2
e. Check Pelvis	0-2
f. Check Legs and Feet (left and right)	0-4
g. Check Back	0-2
Boots Removed Consuctor Fits Perfect., Chedral	Chast onered
Coverally Very fast onto backboard	
19. Load casualty into stretcher	0-10
T N 1 1 1 1 1 1 1	/
I can check done Prior to CASUALTY transpor	<del></del>
0	10
20. Transport Casualty to First Aid (surface)	0-10 10
- C1 - C - H H - C	
Sence of Urgency torsure with this town	



Revised: May 2016



0-3
0-5_5_
0-2
0-2
0-10
id.
0-5_5
1994 (F. 14
0.5
0-5
0-5 0-10
E task 3 Actor
0-3
0-5
0-2
0-2
0-10
0-5_5



33. Contact BO via Radio  a. Report Construction Miner located  b. Report Conditions  c. Time Limit  d. Destination  Told to the Law By Bo Tud  e. Team Status	0-5 0-3 0-2 0-2 0-10
Ensure Scoop is safe  a. Wheel Chocks  b. Master Switch	0-5 0-5
35. Perform First Aid (Primary)  f. Airway  g. Breathing  h. Circulation  i. Gross Bleed Check  Judge  lemand boot of Casually during foot Aio  and placed on ground	0-3 0-3 0-3 0-3 0-3
St. Apply oxygen to casualty Oxygen Rousied Avo Applied offer case	actly uses beck boarded
dentify as Load and Go  OR	0-18
38. Perform First Aid (Secondary)  j. Check head, eyes, ears k. Check neck and throat i. Check arms (left and right) m. Check Torso (front and Sides) n. Check Pelvis  Revised: May 2016  Page 7 of 11	0-2 0-2 0-4 0-2 0-2 0-2 Workplace Safaty North-

Spinal Support done inmediately ? Carbonald through ferst And



o. Check Legs and Feet (left and right) p. Check Back Boots reserved feet checked	0-4 4 0-2
39. First Aid Treatment  c. Put on medical gloves  d. Support Casualty in position found  e. Control bleeding  f. Support Embedded object in position found  C. L. Caralli and found	Mandoinel House
c. Put on medical gloves d. Support Casualty in position found  E. Control bleeding	0-5_5 0-20 0-10
f. Support Embedded object in position found Cat Grerolls any from Casally	0-5
Locate rescue tools (eDraulics)	0-10
The Fully Support casualty Well	l fear to spen
Cut Casualty Free	0-10
Once Casualty is cut free	
g. Place casualty on their side in the basket h. Recheck vitals	0-20 <u>20</u> 0-5
i. Evacuate casualty to surface  42 - H, Checked on County Verbally	0-20

CANADA 2016



Con Con	a. Report Casualty turned over to F/A b. Time Limit c. Destination d. Team Status  And to So Taday Hot they were for	0-5_5 0-2 0-2 0-10
<u> </u>	Get Team out of O <sub>2</sub>	0-10
# #	STOP STOP WATCEL 44 16 18	
	Extreme unsafe action:	Demerit: Max (-25)
	Extreme poor casualty Care:	Max (-20 per casualty)
	Damage to Mine Rescue Equipment:	Max (-5 per item)



Bo Reported Casually in Basket to Bo Judge, Judge we confirmed with me - team did not before assually on Brocket
we confirmed with me - team did not lowe
casualty on Brocket
the laparted to BO WALL Finished! tean was
still Constructing wall.
Bo Reported to Bo Judge
three death care and the control of
Translator took over: led Bo in Bo Room
according to trong dubors
Case III and I to the second
did not see it done university à it use
handed in with parkage.
ATT MERCEN AND AND STREET

Revised: May 2016



Team Number	IIIIGEASV ANGHER /AFR /IIIA		
1	Canada 2	Vale Manitoba Operations	
2	Canada 2	Sudbury Basin Cobras, KGHM	
3	Canada 2	Vale Sudbury West Mines	
4	USA	MSHA Mine Emergency Unit No.1	
	— Break —	Break	
5	Russia	EMERCOM	
6	Russia	JSC SUEK	
7	India	Singareni	
8	India	Coal India Ltd.	
9	Vietnam	Vînacomîn	
10	Słovakia	НВР	
11	Australia	Peabody Energy Wambo Coal	
12	Multinational	Goldcorp Americas	
13	Canada 1	Agnico Eagle Goldex Mine	
	Break	Break	
14	Canada 1	Compass Minerals Goderich Mine	
15	Canada 1	Carneco McArthur River	
16	Canada 1	Kirkland Lake Gold	
17	Columbia	Colombia Coal Company	
18	Columbia	Fiebre del Oro (Gold Fever)	
19	Ukraine	State Militarized Mine Rescue Squad	
20	China	Guizhou Yonggui Energy Company	
21	China	China Pingmei Senma Group	
22	China	Shaanxi Coal and Chemical Group	
	Break	Break	
23	Poland	Bytom Weglokoks	
24	Poland	Scorpions Team Katowice	
25	Poland	Gray Wolfs	
26	Poland	KGHM White Eagles	
27	treland	Boliden Tara Mines	

THE PARTY AND RESIDENCE TO AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY.



TEAM: <u>#2</u>	1 CHINA PING	MEI SEUMA	GROUP
Time Under 0	855	Time Casualty at F/A	Valid Salar
			MERITS
1. Team	to be briefed by Briefing Officer		0-5
a.	Information Available		
	Missing People Underground		0-2
	Actions Taken So far		0-2
d.	Team Assignment		0-2
e.	Route of travel		0-2
f.	Reserve Mine Rescue Teams		0-2
g.	Expected Conditions		0-2
h.	Mine Rescue Equipment availabl	e Mille of the control of the contro	0-2
i.	Transportation available		0-2 0-2 0-2
j.	Location of First aid		0-2
k.	Communication Method		0-2
I.	Synchronize Watches		0-2
m.	Establish Time Limits		0-2
11			1940 A. S.
	re Emergency equipment to be us	ed underground	
	Gas checking equipment		0-3
	First Aid Supplies		0-3
	Back up apparatus for team		0-5
d.	Maps, note pad		0-5
e.	Basket/Backboard		0-3
f.			0-5
g.	Firefighting equipment		0-5
10			ELes
-	4-10 0 VL 1 E-37 E		

Revised: May 2016



Prepare team breathing apparatuses     a. Perform high pressure leak test     b. Install Ice     c. Anti fog mask	0-10 0-5
4. Team under oxygen outside of Fresh Air Base	0-10
5. Verify breathing apparatus is functioning properly	0-10
BO INSTRUCTED CAPT TO CHECK ON	APPARATUS, OI
6. Ensure Toyota operator is wearing breathing apparatus	
7. Contact BO  a. Time Limit	0-2
b. Destination	0-2
c. Time Team under 0 <sub>2</sub>	0-2
8. Board Toyota in a safe manner	0-5
9. Enter mine via Portal	0-5
10. Stop inside of portal	0-5



11. Evaluate Conditions		
	a. Smoke	0-2
	b. CO	0-2
	c. Radio	0-2
	CHU	
stille side W sid		
12. Perform Team Check		
12. Perioriii Tealii Check	d. BG4 functioning	0.5
	e. Team OK	
	f. Record info	
	i. Record into	0-3
13. Contact BO via radio		
a. Report Conditions 5 mo	INE, CO-CHA	0-3
b. Team Status Z3°C.		0-2
THAM CHECKS BY	VICE CAPTAN -1	ALL OK.
14. Proceed down ramp via Toyota		0-5
Section and the section of the secti		
15. Locate unconscious Truck Operator		0-20_1
23. Locate anconscious mack operator		0-20
THE PROPERTY OF THE PERSON OF		
16. Contact BO via Radio		
a. Report Truck operator located	Gall Land	0-5
a. Report Truck operator located b. Report Conditions Smok c. Time Limit	E, COM CHY & IQUIT	· 0-3
c. Time Limit		0-2
d. Destination		0-2
e. Team Status		0-10

Revised: May 2016

Page | 3 of 11

Workplace Safety North-



17. Perform First Aid (Primary)	
a. Airway	0-3
b. Breathing	0-3
c. Circulation	0-3
d. Gross Bleed Check	0-3
18. Protect Casualty from further contamination	0-5_
19. Identify as Load and Go	0-18
OR	
Perform First Aid (Secondary)	
a. Check head, eyes, ears	0-2
b. Check neck and throat	0-2
c. Check arms (left and right)	0-4
d. Check Torso (front and Sides)	0-4 0-2 0-2
e. Check Pelvis	
f. Check Legs and Feet (left and right)	0-4
g. Check Back	0-2
	ine out
19. Load casualty into stretcher	0-10



21. Contact BO from FAB	
a. Report Casualty turned over to F/A	0-5
b. Report Toyota is no longer available	0-3
c. Time Limit	0-2
d. Destination	0-2
e. Team Status	0-10
22. Travel to Truck location via Ramp Portal	0-5
BO INGRUCTED TOAM TO GO	PUTINUE WITH BITASK
FROM BRIEFING,	
23. Ensure Truck is safe to pass	
a. Wheel Chocks	0-5
b. Master Switch	0-5
CHAUGERS AZERS	
24. Proceed to 3930 Sill Ore pass TOOK PICTURE ON ROT	0-5_1
25. Contact BO	
a. Report Conditions CO, Smoke	70 0-3
b. Time Limit to Build wall	0-2
c. Report Increase in Temperature	0-3
d. Team Status	BO DION'T GIVE
DRY \$30 WET 23	BO DIODIT QUE
WORKING TIMES TO TOAM.	
26.5.1.1.1.11	
26. Fabricate Wall	0.30
a. Wall Completed within Time limit (20 min)     b. Construction materials used are sufficient	0 – 20
AND THE PARTY OF T	0-10
40% V 36, V 36, V 400 M 30	0-10
d. Construction work evenly shared	0-10



27. Conta	ct BO	
	Report Conditions	0-3
h.	Report Status of Wall wall completed.	0-3
ъ. С	Time Limit	0-3
	Destination	0-2
	Team Status	0-10
e.	BO REQUESTERO CAPTAIN TO DO	
28. Travel	to 150 L Refuge Station 4260 R/S	0-5
	AGKING FOR POT	
		- Tittur
	AREA STATE OF THE	
29. Conta	ct Construction Miner	
a.	Perform verbal Primary	0-5
	Obtain info about his partner	0-5
	Place miner in a safe location (ie Refuge Station)	0-10
30. Contac	ct BO	
a.	Report Conditions	0-3
b.	Report Status of Construction Miner	0-5
c.	Time Limit	0-2
d.	Destination	0-2
e.	Team Status	0-10
21 Teaus	to BV same via 4310 Spur V even	0.5.4
or, mayer	to RV ramp via 4210 Spur X-over	0-5
	TANKER BAR TER	B Box



a. b. c. d.	ct BO via Radio Report Construction Mine Report Conditions Time Limit Destination	r located	0-5 0-3 0-2 0-2
BO ASK	Team Status  CAPT CONIDU	TIME OF THE	MINUR + TO DO TEAM
CHECKS	BO ASKEND TEXAMS	LOCATION,	
34. Ensure a.	e Scoop is safe Wheel Chocks Master Switch		0-5 0-5
,			
	m First Aid (Primary)		
	Airway Breathing		0-3
	Circulation		0-3
	Gross Bleed Check		0-3
n = =			
36. Apply	oxygen to casualty		0-5
37. Identi	fy as Load and Go		0-18
		OR	
j. k. l. m. n.	The First Aid (Secondary)  Check head, eyes, ears  Check neck and throat  Check arms (left and right  Check Torso (front and Sic  Check Pelvis	les)	0-2 0-2 0-4 0-2 0-2
Revised: May 2	016	Page   7 of 11	Workplace Safety North-



p. Check Back	0-2 0-5 0-20
	0-5 0-20
	0 – 5 <u> </u>
39. First Aid Treatment	0 – 5 0 – 20
c. Put on medical gloves	0 – 20
d. Support Casualty in position found	
e. Control bleeding	0-10
f. Support Embedded object in position found	0-5
40. Locate rescue tools (eDraulics)	0-10
41. Ensure tools are safe to use	0-5
42. Cut Casualty Free	0-10
Once Casualty is cut free	
g. Place casualty on their side in the basket	0-20
h. Recheck vitals	0-20
i. Evacuate casualty to surface	0-5
BO ASKED WHAT TO BO WITH CASUALTY	
TO BRING HIM TO SURFACE. BO ASK	
was and lable. No	

CANADA 2016



3. Contact BO	
a. Report Casualty turned over to F/A	0-5
b. Time Limit	0-2
c. Destination	0-2
d. Team Status	0-10
4. Get Team out of O <sub>2</sub>	0-10
Miscellaneous:	
	Demerit:
Extreme unsafe action:	Max (-25)
16 18 12 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Extreme poor casualty Care:	Max (-20 per casualty)
CANAI	3 71116
Damage to Mine Rescue Equipment:	Max (-5 per item)



A PARK I I I I I I I I I I I I I I I I I I I
AND THE REAL PROPERTY.
WELL KILLIER CITE IN
2 40,440,000 (0.000)



Team	Team Tuesday August 23rd, 2016		
Number			
1	Canada 2	Vale Manitoba Operations	
2	Canada 2	Sudbury Basin Cobras, KGHM	
3	Canada 2	Vale Sudbury West Mines	
4	USA	MSHA Mine Emergency Unit No.1	
	— Break —	Break	
5	Russia	EMERCOM	
6	Russia	JSC SUEK	
7	tndia	Singareni	
8	tndia	Coal India Ltd.	
9	Vietnam	Vinacomin	
10	Slovakia	НВР	
11	Australia	Peabody Energy Wambo Coal	
12	Multinational	Goldcorp Americas	
13	Canada 1	Agnico Eagle Goldex Mine	
	Break	Break	
14	Canada 1	Compass Minerals Goderich Mine	
15	Canada 1	Cameco McArthur River	
16	Canada 1	Kirkland Lake Gold	
17	Columbia	Colombia Coal Company	
18	Columbia	Fiebre del Oro (Gold Fever)	
19	Ukraine	State Militarized Mine Rescue Squad	
20	China	Guizhou Yonggui Energy Company	
21	China	China Pingmei Senma Group	
22	China	Shaanxi Coal and Chemical Group	
	Break	Break	
23	Poland	Bytom Weglokoks	
24	Poland	Scorpions Team Katowice	
25	Poland	Gray Wolfs	
26	Poland	KGHM White Eagles	
27	treland	Boliden Tara Mines	

THE STREET STREET, STR



### TEAM: CHWA PINGMEI SENNA GROSUP

ime Under O <sub>2</sub>	Time Casualty at F/A
	MERI
1. Team to be briefed by Briefing Officer	
a. Information Available	0-5
b. Missing People Underground	0-2
c. Actions Taken So far	0-2
d. Team Assignment	0-2
e. Route of travel	U-2
f. Reserve Mine Rescue Teams	0-2
g. Expected Conditions	U-Z
h. Mine Rescue Equipment available	
i. Transportation available	U-2
j. Location of First aid	
k. Communication Method  I. Synchronize Watches	0-2
	0-2
m. Establish Time Limits	0-2
	0-2
2. Prepare Emergency equipment to be used ι	Indorgroup
a. Gas checking equipment	
b. First Aid Supplies	0-3
c. Back up apparatus for team	0-3
d. Maps, note pad	0-5
e. Basket/Backboard	0-5
f. Casualty Breathing Apparatus	0-3
g. Firefighting equipment	0-5
- Company of the Comp	0-5
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The state of the s	



3. Prepare team breathing ap	paratuses	
a. Perform high pressu		0-10
b. Install Ice		0-5
c. Anti fog mask		0-5
4. Team under oxygen outside	e of Fresh Air Base	0 – 10
5. Verify breathing apparatus	is functioning properly	0-10
5. Ensure Toyota operator is v	wearing breathing apparatus	0-5
7. Contact BO		
a. Time Limit		0-2
b. Destination		0-2
c. Time Team under 0;	2	0-2
3. Board Toyota in a safe man	nner	0-5
TOTAL STREET		
9. Enter mine via Portal		0-5
10. Stop inside of portal		0-5



11. Evaluate Co	onditions			
		a.	Smoke	0-2
		b.	CO	0-2
		c.	Radio	0 – 2
12. Perform To	eam Check		_	
			BG4 functioning	
			Team OK	
		f.	Record info	0-5
	Elizabella Africanda			
13. Contact BC	via radio			
a. Rep	ort Conditions			0-3
b. Tea	m Status			0-2
				# 1 = 1 2 = 1 U A
14. Proceed do	own ramp via Toyota			0-5
100				
15. Locate unc	onscious Truck Operator			0 - 20
_				
16. Contact BC				
a. Rep	ort Truck operator located			0-5
b. Rep	ort Conditions			0-3
c. Tim	e Limit			0-2
d. Des	tination			0-2
e. Tea	m Status			0-10



I/. Perror	m First Aid (Primary)	
a.	Airway	0-3
b.	Breathing	0-3
c.	Circulation	0-3
d.	Gross Bleed Check	0-3
18. Protec	t Casualty from further contamination	0-5
19. Identif	y as Load and Go	0-18
	OR	
5 (		
	m First Aid (Secondary)	
	Check head, eyes, ears	0-2
	Check neck and throat	0-2 0-4
	Check arms (left and right) Check Torso (front and Sides)	0-2
	Check Pelvis	0-2
	Check Legs and Feet (left and right)	0-4
	Check Back	0-2
19. Load c	asualty into stretcher	0-10
20. Transp	port Casualty to First Aid (surface)	0-10

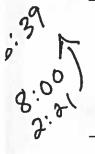
# CHINA - PINGME 1 SENMA GROUP



	21.
8126	
0	
4.5	
W/k-	9
10	

	•
Contact BO from FAB	
a. Report Casualty turned over to F/A	0-5
b. Report Toyota is no longer available	0-3
c. Time Limit	0-2
d. Destination	0-2
e. Team Status	0-10
Travel to Truck location via Ramp Portal	0-5

22. Have to Huck location via Kaisip Portai	0-5
	HO.
23. Ensure Truck s safe to pass	
a. Whee Chocks	0-5
b. Master witch	0-5
	s vaks firev
I W	
<i>h</i> /	
24. Proceed to 3930 Sill Ore pass	0-5
24. Froced to one of the person	



a. Report Conditions OOK NEM.  b. Time Limit to Build wall  c. Report Increase in Temperature Used Kosfrol  d. Team Status	D. C.	Report Conditions OOK ILEM.  Time Limit to Build wall  Report Increase in Temperature Used		0-3 3 0-2 9 0-3 3 0-10 9
--	----------	--	--	-----------------------------------

1	,	
7.5	ກ	1
a:	20 10/1	P <sup>d</sup>
O ( A	MY 1	•
W	1/6	<i>,</i> •
C)	10	
_		

Hung Idness redically + Nail and to Line: Stayled meet wet to

MAILED SAY & Bottom (and to fel) + Stoppled.

514 Nacce Vertically on 015 of father

Asomer Sig



<del>-</del> ·		V Net
27. Contac	t BO	
a.	Report Conditions NO	0-3_
	Report Status of Wall	0-55
	Time Limit No	0-2
d.	Destination	0-2
e.	Team Status	0-10_/0_
28. Travel	to 150 L Refuge Station	0-5
	t Construction Miner	
	Perform verbal Primary	0-5
	Obtain info about his partner	0-5
C.	Place miner in a safe location (ie Refuge Station)	0-10
-		
30. Contac		
	Report Conditions	0-3
	Report Status of Construction Miner	0-5
	Time Limit	0-2
	Destination	0-2
e.	Team Status	0-10
31. Travel	to RV ramp via 4210 Spur X-over	0-5
22 Loants	Injured Construction miner at DC7	
JZ. LUCALE	Injured Construction miner at DS7	0-20

Revised: May 2016



A STATE OF THE STA	
33. Contact BO via Radio	
a. Report Construction Miner located	0-5
b. Report Conditions c. Time Limit	0-3
d. Destination	0-2
e. Team Status	0-2 0-10
e. Teath Status	0-10
34. Ensure Scoop is safe	Mina_
a. Wheel Chocks	0-5
b. Master Switch	0-5
35. Perform First Aid (Primary)	
f. Airway	0-3
g. Breathing	0-3
h. Circulation	0-3
i. Gross Bleed Check	0-3
	erster in the state of the stat
36. Apply oxygen to casualty	0-5
37. Identify as Load and Go	0-18
OR	
38. Perform First Aid (Secondary)	
j. Check head, eyes, ears	0-2
k. Check neck and throat	0-2
I. Check arms (left and right)	0-4
m. Check Torso (front and Sides)	0-2
n. Check Pelvis	0-2

Page | 7 of 11



0-4
0-2
0-5
0 – 20
0-10
0-5
0-3
0-10
0-5
0-10_
0-20
0-5
0-20



3. Contact BO	0 5
a. Report Casualty turned over to F/A	0-5
b. Time Limit c. Destination	0-2
d. Team Status	0-2 0-10
u. Team status	0-10
4. Get Team out of O₂	0-10
Miscellaneous:	
	Demerit:
Extreme unsafe action:	Max (-25)
The control of the second	Market Company Company
Extreme poor casualty Care:	Max (-20 per casualty)
	F 0030
Damage to Mine Rescue Equipment:	Max (-5 per item)

Revised: May 2016



PURSON PURSON AND		MA ASS		
- 1 Table 1 Ta			4	
Sen Su vall for pa		0.00		
	109		11 11	
	- 10	_ ** _ **		2/3/5/5
				- 7322
		7.000		
			Term.	
			The little to	
	READ	ZIRBEN	Mac III	
			THE PARTY OF THE P	
		144 M 1028 11 TH		
				145
			in wedi	
			Her Carlotte	
			11 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000-100-00
		Missian Entire		
t-IIIV STRINGENERAL IS	1101			- 225
THE PARTY OF THE P				
The second secon			reminant.	
	111111111111111111111111111111111111111			
HILLESS HOROL	- 10	sommy) dis and som	illur.	
		12.00		- 0
			-	
	tell year			1000
	3877 75		TE 150 No. 100 Mark Plan Address	10 10
AT THE PART OF	In W. 1918	- FA R B	T Sec.	***
100	M M C N	27 5 W M	R 500	
BALLE WILL	S. F. S.	L KLOVIN	-Da Yeal	
1522 M				



Team Number	Tuesday Au	igust 23rd, 2016
1	Canada 2	Vale Manitoba Operations
2	Canada 2	Sudbury Basin Cobras, KGHM
3	Canada 2	Vale Sudbury West Mines
4	USA	MSHA Mine Emergency Unit No.1
	— Break —	Break
5	Russia	EMERCOM
6	Russia	JSC SUEK
7	India	Singareni
8	India	Coal India Ltd.
9	Vietnam	Vinacomin
10	Slovakia	HBP
11	Australia	Peabody Energy Wambo Coal
12	Multinational	Goldcorp Americas
13	Canada 1	Agnico Eagle Goldex Mine
	Break	— Break —
14	Canada 1	Compass Minerals Goderich Mine
15	Canada 1	Cameco McArthur River
16	Canada i	Kirkland Lake Gold
17	Calumbia	Colombia Coal Company
18	Columbia	Fiebre del Oro (Gold Fever)
19	Ukraine	State Militarized Mine Rescue Squad
20	China	Guizhou Yonggui Energy Company
21	China	China Pingmei Senma Group
22	China	Shaanxi Coal and Chemical Group
	Break	Break
23	Poland	Bytom Weglokoks
24	Poland	Scorpions Team Katowice
25	Poland	Gray Wolfs
26	Poland	KGHM White Eagles
27	treland	Boliden Tara Mines

Revised: May 2016 Page | 11 of 11





ime Under O <sub>2</sub>		e Casualty at F/A	
ic onder			
		MERIT	
1. Tear	n to be briefed by Briefing Officer	0-5	
	a. Information Available	0-2	
	o. Missing People Underground	0-2	
	. Actions Taken So far	0-2	
	l. Team Assignment	0-2	
	. Route of travel	0-2	
f. Reserve Mine Rescue Teams g. Expected Conditions h. Mine Rescue Equipment available i. Transportation available		0-2	
		0-2	
		0-2	
		0-2	
j.	Location of First aid	0-2	
k	c. Communication Method	0-2	
1.	Synchronize Watches	0-2	
r	m. Establish Time Limits	0-2	
7 Pron	are Emergency equipment to be used unde	arground	
-	. Gas checking equipment	0-3	
	o. First Aid Supplies	0-3	
	. Back up apparatus for team	0-5	
	I. Maps, note pad	0-5	
	e. Basket/Backboard	0-3	
	. Casualty Breathing Apparatus	0-5	
e	. Firefighting equipment	0-5	



3.	Prepare team breathing apparatuses	
	a. Perform high pressure leak test	0-10
	b. Install Ice	0-5
	c. Anti fog mask	0-5
4.	Team under oxygen outside of Fresh Air Base	0 – 10
5.	Verify breathing apparatus is functioning properly	0-10
5.	Ensure Toyota operator is wearing breathing apparatus	0-5
7.	Contact BO	
	a. Time Limit	0-2
	b. Destination	0-2
	c. Time Team under 0₂	0-2
8.	Board Toyota in a safe manner	0-5
— 9.	Enter mine via Portal	0-5
10.	Stop inside of portal	0-5
	CANADA 2	TE

Revised: May 2016



11. Evaluate Conditions				
	a.	Smoke	0-2_	
	b.	CO	0-2_	
	c.	Radio	0-2_	
			3	
12. Perform Team Check				
	d.	BG4 functioning		
	e.	Team OK	0-5_	
	f.	Record info	0-5_	
	MARINET -			
13. Contact BO via radio				
a. Report Conditions				
b. Team Status			0-2_	
			13U 17	
14. Proceed down ramp via Toyota			0-5_	
15. Locate unconscious Truck Operator			0 - 20 _	20
16. Contact BO via Radio				
a. Report Truck operator located			0-5	2
b. Report Conditions			0-3_	2
c. Time Limit			0-2_	2
d. Destination			0-2_	100
e. Team Status			0-10_	10
Time TASK COMPLETED AT	8 in	IN 50 Sec	1	

Revised: May 2016

Page | 3 of 11

Workplace Safety North-



17. Pertor	m First Aid (Primary)	0
	Airway	0-3_7
	Breathing	0-3_3
	Circulation	0-3
d.	Gross Bleed Check	0-3_3
18. Protec	ct Casualty from further contamination	0-5 5
_	ed with Caraveny min 30 sec	
19. Identi	fy as Load and Go	0-18
	OR	
	m First Aid (Secondary)	
	Check head, eyes, ears	0-2
	Check neck and throat	0-2
	Check arms (left and right)	0-4
	Check Torso (front and Sides)	0-2
	Check Pelvis	0-2
	Check Legs and Feet (left and right)	0-4
g.	Check Back	0-2
19. Load o	asualty into stretcher	0-10_[0
20. Transp	port Casualty to First Aid (surface)	0-10 10
	THE RES TO BE THE PERSON THE PARTY OF STREET	70 4%
	LA NIA BEAL FEL	1 150



21. Conta	ct BO from FAB	
a.	Report Casualty turned over to F/A	0-5
b.	Report Toyota is no longer available	0-3
	Time Limit	0-2
d.	Destination	0-2
е.	Team Status	0-10
22. Travel	to Truck location via Ramp Portal	0-5
23. Ensure	e Truck is safe to pass	
a.	Wheel Chocks	0-5
b.	Master Switch	0-5
20, 10, 20, 1	DEDUCATE AND STREET	
24. Proce	ed to 3930 Sill Ore pass	0-5
		995 E
25. Conta	et BO	
	Report Conditions	0 3
	Time Limit to Build wall	0-3 0-2
	Report Increase in Temperature	0-2
	Team Status	0-3 0-10
26. Fabric		
	Wall Completed within Time limit (20 min)	0 – 20
	Construction materials used are sufficient	0-10
	Construction Method Sufficient	0-10
d.	Construction work evenly shared	0-10



27. Contact BO  a. Report Cor  b. Report Stat  c. Time Limit  d. Destination  e. Team State  28. Travel to 150 L Res  29. Contact Construct  a. Perform ve  b. Obtain info  c. Place mine	tus of Wall	0-3 0-5 0-2
a. Report Cor b. Report Stat c. Time Limit d. Destination e. Team Statu 28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info	tus of Wall	0 – 5 0 – 2
a. Report Cor b. Report Stat c. Time Limit d. Destination e. Team Statu 28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info	tus of Wall	0 – 5 0 – 2
b. Report State c. Time Limit d. Destination e. Team State 28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info	tus of Wall	0 – 5 0 – 2
c. Time Limit d. Destination e. Team Statu 28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info	1	0-2
d. Destination e. Team Statu 28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info		
e. Team Statu 28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info		
28. Travel to 150 L Res 29. Contact Construct a. Perform ve b. Obtain info	IS .	0-2
9. Contact Construct a. Perform ve b. Obtain info		0-10
9. Contact Construct a. Perform ve b. Obtain info		
9. Contact Construct a. Perform ve b. Obtain info	Fuge Station	0-5
<ul><li>a. Perform ve</li><li>b. Obtain info</li></ul>	age Station	
<ul><li>a. Perform ve</li><li>b. Obtain info</li></ul>		SHIRESHIP D
<ul><li>a. Perform ve</li><li>b. Obtain info</li></ul>	ion Miner	
b. Obtain info		0-5
		0-5
	r in a safe location (ie Refuge Station)	0-10_
0. Contact BO		
a. Report Cor	ditions	0-3
b. Report Star	tus of Construction Miner	0-5
c. Time Limit		0-2
d. Destination		0-2
e. Team Statu	IS .	0-10
1. Travel to RV ramp	via 4210 Spur X-over	0-5
		- FIEL
2. Locate Injured Cor	the later than the later to the later than the	



33. Contact BO via Radio	
a. Report Construction Miner	r located 0 – 5
b. Report Conditions	0-3
c. Time Limit	0-2
d. Destination	0-2
e. Team Status	0-10
34. Ensure Scoop is safe	
a. Wheel Chocks	0-5
b. Master Switch	0-5
35. Perform First Aid (Primary)	
f. Airway	0-3
g. Breathing	0-3
h. Circulation	0-3
i. Gross Bleed Check	0-3
36. Apply oxygen to casualty	0-5
37. Identify as Load and Go	0-18
	OR
38. Perform First Aid (Secondary)	
j. Check head, eyes, ears	0-2
k. Check neck and throat	
<ol> <li>Check arms (left and right)</li> </ol>	es) 0-2 0-4 0-2
m. Check Torso (front and Sid	es) 0 – 2
n. Check Pelvis	0-2
Revised: May 2016	Page   7 of 11 Workplace
nevised. Way 2010	Safety North



Control of the last of the las
0-2
0-5
0-20
0-10
0-5
0-10_
0-5
0-10
0-20
0-5
0 – 20

CANADA 2016



3. Contact BO  a. Report Casualty turned over to F/A	0-5
b. Time Limit	0-2
c. Destination	0-2
d. Team Status	0-2 0-10
4. Get Team out of O <sub>2</sub>	0-10
Miscellaneous:	
	Demerit:
Extreme unsafe action:	Max (-25)
Amesing services in southerest	
Extreme poor casualty Care:	Max (-20 per casualty)
CARATA	7 2016
Damage to Mine Rescue Equipment:	Max (-5 per item)



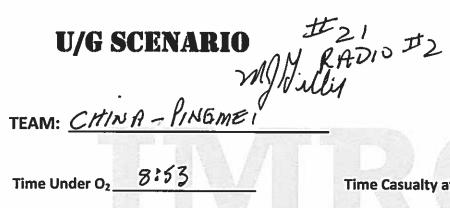
	_
	-
	_
	_
	_
	_
	_
	-
	-
	_
	ľ
	-
	_
	7
	-
	_
	_
	-
	_
	_
	-
	_
	-
	_
	-
The Third Control of the Control of	-
	_
	_
	-
	_
AT " AN INI AN H M LE " THE H LL	-
	_
The F. S. Mark W. M.	
	Ī
	-





Team Number			
1	Canada 2	Vale Manitoba Operations	
2	Canada 2	Sudbury Basin Cobras, KGHM	
3	Canada 2	Vale Sudbury West Mines	
4	USA	MSHA Mine Emergency Unit No.1	
13	— Break —	Break	
5	Russia	EMERCOM	
6	Russia	JSC SUEK	
7	India	Sîngarenî	
8	India	Coal India Ltd.	
9	Vietnam	Vinacomin	
10	Slovakia	HBP	
11	Australia	Peabody Energy Wambo Coal	
12	Multinational	Goldcorp Americas	
13	Canada 1	Agnico Eagle Goldex Mine	
	Break	Break	
14	Canada 1	Compass Minerals Goderich Mine	
15	Canada 1	Cameco McArthur River	
16	Canada 1	Kirkland Lake Gold	
17	Columbia	Colombia Coal Company	
18	Columbia	Fiebre del Oro (Gald Fever)	
19	Ukraine	State Militarized Mine Rescue Squad	
20	China	Guizhou Yonggui Energy Company	
21	China	China Pingmei Senma Group	
22	China	Shaanxi Coal and Chemical Group	
	Break	Break	
23	Poland	Bytom Weglokoks	
24	Poland	Scorpions Team Katowice	
25	Poland	Gray Wolfs	
26	Poland	KGHM White Eagles	
27	treland	Boliden Tara Mines	

The state of the s





Time Casualty at F/A

		MER
1 Team	to be briefed by Briefing Officer	0-5 5
	Information Available	0-2 2
	Missing People Underground	$0-2 \frac{2}{2}$
	Actions Taken So far	0-2
	Team Assignment	0-2 2
	Route of travel	0-2 7
	Reserve Mine Rescue Teams	0-2 2
•	Expected Conditions	0-2 0
_	Mine Rescue Equipment available	0-2 0
i.		0-2 2
j.	Location of First aid	0-2 2
-	Communication Method	0-2
1.	Synchronize Watches	0-2 2
m	Establish Time Limits	0-2
2. Prepa	re Emergency equipment to be used underground	
a.	Gas checking equipment	0-3 3
b.	First Aid Supplies	0-3 3
c.	Back up apparatus for team	0-5 5
d.	Maps, note pad	0-5 5
e.	Basket/Backboard	0-3 3
f.	Casualty Breathing Apparatus	0-5 5
g.		0-5_5
		die he wh
	L MAN TEN CH H H MAN A	



3.	Prepare team breathing apparatuses  a. Perform high pressure leak test  b. Install Ice  c. Anti fog mask	0-10 1D 0-5 5 0-5 5
4.	Team under oxygen outside of Fresh Air Base	0-10
5.	Verify breathing apparatus is functioning properly	0-10_/0
6.	Ensure Toyota operator is wearing breathing apparatus	0-5_2
7.	Contact BO	
	a. Time Limit	0-2
	b. Destination	0-2
	c. Time Team under 0 <sub>2</sub>	0-2
8.	Board Toyota in a safe manner	0-5_5_
	The second of th	
9.	Enter mine via Portal	0-5 _ 5
	VI O Halles	
10	. Stop inside of portal	0-5



11. Evaluate Conditions			
		Smoke	0-2
	b.	CO	0-2
	C.	Radio	0-2
		S-PV-DS-VPE-v ma	
12. Perform Team Check			
	d.	BG4 functioning	0-5
		Team OK	
	f.	Record info	0-5
13. Contact BO via radio			
a. Report Conditions			0-3
b. Team Status			0-2
14. Proceed down ramp via Toyota			0 - 5
	LOHO:		0 8 1
15. Locate unconscious Truck Operator	-		0 - 20
16. Contact BO via Radio			
a. Report Truck operator located			0-5
b. Report Conditions			0-3
c. Time Limit			0-3
d. Destination			0-2
e. Team Status			0-10
c. realit status			0 – 10

Revised: May 2016

Workplace Safety North-



17. Perform First Aid (Primary)		
a. Airway	0-3	
b. Breathing	0-3	
c. Circulation	0-3	
d. Gross Bleed Check	0-3	
18. Protect Casualty from further contamination	0-5	
19. Identify as Load and Go	0-18	
OR		
Perform First Aid (Secondary)		
a. Check head, eyes, ears	0-2	
b. Check neck and throat	0-2	
c. Check arms (left and right)	0-4	
d. Check Torso (front and Sides)	0-2	
e. Check Pelvis	0-2	
f. Check Legs and Feet (left and right)	0-4	
g. Check Back	0-2	
19. Load casualty into stretcher	0-10	
20. Transport Casualty to First Aid (surface)	0-10	



21. Contac	t BO from FAB					
a.	Report Casualty turned over to F/A	0-5				
<ul><li>b. Report Toyota is no longer available</li><li>c. Time Limit</li><li>d. Destination</li></ul>		0-3 0-2 0-2				
				е.	Team Status	0-10
				22. Travel (	to Truck location via Ramp Portal	0-5
	Truck is safe to pass					
a.	Wheel Chocks	0-5				
b.	Master Switch	0-5				
		4-08 [10]				
24. Procee	d to 3930 Sill Ore pass	0-5				
		gall exagge to				
25. Contac	t BO					
a.	Report Conditions	0-3				
b.	Time Limit to Build wall	0-2				
c.	Report Increase in Temperature	0-3				
d.	Team Status	0-10				
		<del></del>				
26 Fahrica	te Wall	25-77-75-78				
26. Fabrica		0 – 20				
a.	Wall Completed within Time limit (20 min)					
a. b.		0-20 0-10 0-10				



27. Conta	ort BO	
	Report Conditions	0-3
	Report Status of Wall	0-5
	Time Limit	0-2
	Destination	0-2
	Team Status	0-10
28. Trave	l to 150 L Refuge Station	0-5
29. Conta	act Construction Miner	
a.	Perform verbal Primary	0-5
b.	Obtain info about his partner	0-5
c.	Place miner in a safe location (ie Refuge Station)	0-10
30. Conta		
	Report Conditions	0-3
	Report Status of Construction Miner	0-5
	Time Limit	0-2
	Destination	0-2
e.	Team Status	0-10
31. Trave	l to RV ramp via 4210 Spur X-over	0-5
	The same of the sa	
22 Locat	e Injured Construction miner at DS7	0-20



33. Contact BO via Radio		
a. Report Construction Miner located	0-5	
b. Report Conditions	0-3	
c. Time Limit	0-2	
d. Destination	0-2	
e. Team Status	0-10	
C. Tain status		
34. Ensure Scoop is safe		
a. Wheel Chocks	0-5	
b. Master Switch	0-5	
35. Perform First Aid (Primary)		
f. Airway	0-3	
g. Breathing	0-3	
h. Circulation	0-3	
i. Gross Bleed Check	0-3	
36. Apply oxygen to casualty	0-5	
	8310011117	
37. Identify as Load and Go	0 – 18	
OR		
38. Perform First Aid (Secondary)		
j. Check head, eyes, ears	0-2	
k. Check neck and throat	0-2	
I. Check arms (left and right)	0-4	
m. Check Torso (front and Sides)	0-2	
n. Check Pelvis	0-2	
	<b>—</b>	



<ul> <li>o. Check Legs and Feet (left and right)</li> </ul>	0-4
p. Check Back	0-2
39. First Aid Treatment	
c. Put on medical gloves	0-5
d. Support Casualty in position found	0 – 20
e. Control bleeding	0-10
f. Support Embedded object in position found	0-5
10. Lecate recove tools (oProvises)	0 10
40. Locate rescue tools (eDraulics)	0-10
11. Ensure tools are safe to use	0-5
42. Cut Casualty Free	0-10
+2. Cut casualty rice	0-10
Once Casualty is cut free	
g. Place casualty on their side in the basket	0-20
h. Recheck vitals	0-5
i. Evacuate casualty to surface	0-20
Eradusta dadustri to surroc	J 20
	·

CANADA 2016



3. Contact BO	
a. Report Casualty turned over to F/A	0-5
b. Time Limit	0-2
c. Destination	0-2
d. Team Status	0-10
4. Get Team out of O <sub>2</sub>	0-10
Miscellaneous:	
	Demerit
Extreme unsafe action:	Max (-25)
THE RESIDENCE OF THE PARTY OF T	
Extreme poor casualty Care:	Max (-20 per casualty)
CARADA	1 2016
Damage to Mine Rescue Equipment:	Max (-5 per item)



NEC 2400 (100 ACC)	
	_
	_
	-
	_
tradic comparation to the state of the state	
	_
	_
E	
	-
AT THE REAL PROPERTY OF THE PR	
	071 C 10
Control and began together and the control of the control of the section of the control of the c	



Team Number			
1	Canada 2	Vale Manitoba Operations	
2	Canada 2	Sudbury Basin Cobras, KGHM	
3	Canada 2	Vale Sudbury West Mines	
4	USA	MSHA Mine Emergency Unit No.1	
	— Break —	Break	
5	Russia	EMERCOM	
6	Russia	JSC SUEK	
7	India	Singareni	
8	tndia	Coal India Ltd.	
9	Vietnam	Vinacomin	
10	Slovakia	HBP	
11	Australia	Peabody Energy Wambo Coal	
12	Multinational	Goldcorp Americas	
13	Canada 1	Agnico Eagle Goldex Mine	
	— Break —	Break	
14	Canada 1	Compass Minerals Goderich Mine	
15	Canada 1	Cameco McArthur River	
16	Canada 1	Kirkland Lake Gold	
17	Columbia	Colombia Coal Company	
18	Columbia	Fiebre del Oro (Gald Fever)	
19	Ukraine	State Militarized Mine Rescue Squad	
20	China	Guizhou Yonggui Energy Company	
21	China	China Pingmei Senma Group	
22	China	Shaanxi Coal and Chemical Group	
	Break	Break	
23	Poland	Bytom Weglokoks	
24	Poland	Scorpions Team Katowice	
25	Poland	Gray Wolfs	
26	Poland	KGHM White Eagles	
27	treland	Boliden Tara Mines	

#21

U/G SCENARIO Way El



ime Under O₂_	8:53	Time Casualty at F/A		
	hub V dhu			MERITS
1. Team to b	ne briefed by Briefing Officer	0-	5_	5
a. Inj	formation Available	0-	2_	<u> </u>
b. M	issing People Underground	0-	2_	2
c. Ac	tions Taken So far	0-	2_	D
d. Te	am Assignment	0-	2_	2
e. Ro	oute of travel	0-	2_	ユ
f. Re	serve Mine Rescue Teams	0-	2_	2 2
g. Ex	pected Conditions	0-	2_	_೨
h. M	ine Rescue Equipment available	0-	2_	0
i. Tro	ansportation available			2
j. Lo	cation of First aid	0-	2_	2
k. Co	mmunication Method	0-	2_	0
I. Sy	nchronize Watches			2
m. Es	tablish Time Limits	0-	2_	2
				- 1
2. Prepare E	mergency equipment to be used	underground		_
a. Ga	as checking equipment	0-	3 _	<u>る</u>
b. Fir	rst Aid Supplies	0-	3 _	3 5
c. Ba	ck up apparatus for team	0-	5_	_5_
d. M	aps, note pad	0-	5_	_5
e. Ba	sket/Backboard	0 –	3_	3
f. Ca	sualty Breathing Apparatus	0 –	5_	<u> </u>
g. Fir	refighting equipment	0 —	5_	5

Revised: May 2016



Prepare team breathing apparatuses     a. Perform high pressure leak test     b. Install Ice     c. Anti fog mask	0-10 /0 0-5 5 0-5 5
4. Team under oxygen outside of Fresh Air Base	0-10/O
5. Verify breathing apparatus is functioning properly	0-10 /0
6. Ensure Toyota operator is wearing breathing apparatus  一 CHCK ED Mit UEL ONLY, NO FACE APPA	0-5_2 KATUS CHECK
7. Contact BO  a. Time Limit  b. Destination  c. Time Team under 02	0-2 0-2 0-2
8. Board Toyota in a safe manner	0-5 5
9. Enter mine via Portal	0-55
10. Stop inside of portal	0-5
CANADA 20	16



11. Evaluate Conditions			
	a.	Smoke	0-2
	b.	CO	0-2
	C.	Radio	0-2
12. Perform Team Check			
	d.	BG4 functioning	0 – 5
		Team OK	0-5
	f.	Record info	
13. Contact BO via radio		A.O.	
a. Report Conditions			0-3
b. Team Status			0-2
14. Proceed down ramp via Toyota			0-5
15. Locate unconscious Truck Operator			0 - 20
16. Contact BO via Radio			
a. Report Truck operator located			0 – 5
b. Report Conditions			0-3
c. Time Limit			0 – 2
d. Destination			0-2
e. Team Status			0-10



17. Perform First Aid (Primary)		
a. Airway	0-3	
b. Breathing	0-3	
c. Circulation	0-3	
d. Gross Bleed Check	0-3	
18. Protect Casualty from further contamination	0-5	
19. Identify as Load and Go	0-18	
OR		
Perform First Aid (Secondary)		
a. Check head, eyes, ears	0-2	
b. Check neck and throat	0-2	
c. Check arms (left and right)	0-4	
d. Check Torso (front and Sides)	0-2	
e. Check Pelvis	0-2	
f. Check Legs and Feet (left and right)	0-4	
g. Check Back	0-2	
19. Load casualty into stretcher	0-10	
20. Transport Casualty to First Aid (surface)	0-10	



c. Time Limit       0-2         d. Destination       0-2         e. Team Status       0-10             22. Travel to Truck location via Ramp Portal       0-5         23. Ensure Truck is safe to pass       0-5         a. Wheel Chocks       0-5         b. Master Switch       0-5            24. Proceed to 3930 Sill Ore pass       0-5         25. Contact BO       0-3         a. Report Conditions       0-3         b. Time Limit to Build wall       0-2         c. Report Increase in Temperature       0-3         d. Team Status       0-10	21. Conta	ct BO from FAB	
b. Report Toyota is no longer available c. Time Limit d. Destination e. Team Status  22. Travel to Truck location via Ramp Portal  23. Ensure Truck is safe to pass a. Wheel Chocks b. Master Switch  24. Proceed to 3930 Sill Ore pass  25. Contact BO a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient	a.	Report Casualty turned over to F/A	0-5
d. Destination e. Team Status  0-10  22. Travel to Truck location via Ramp Portal  0-5  23. Ensure Truck is safe to pass a. Wheel Chocks b. Master Switch  0-5  24. Proceed to 3930 Sill Ore pass  0-5  25. Contact BO a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  0-10  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient 0-10  27. Travel to Truck location 0-5  0-5  0-5  0-5  0-5  0-7  0-3  0-7  0-3  0-10  0-10	b.	Report Toyota is no longer available	0-3
d. Destination e. Team Status  0-10  22. Travel to Truck location via Ramp Portal  0-5  23. Ensure Truck is safe to pass a. Wheel Chocks b. Master Switch  0-5  24. Proceed to 3930 Sill Ore pass  0-5  25. Contact BO a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  0-10  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient 0-10  27. Travel to Truck location 0-5  0-5  0-5  0-5  0-5  0-7  0-3  0-7  0-3  0-10  0-10	C.	Time Limit	0-2
e. Team Status  0 - 10  22. Travel to Truck location via Ramp Portal  0 - 5  23. Ensure Truck is safe to pass  a. Wheel Chocks b. Master Switch  0 - 5  24. Proceed to 3930 Sill Ore pass  0 - 5  25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  0 - 10  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient 0 - 10  27. Construction Method Sufficient 0 - 10  28. Team Status  0 - 10  0 - 20  0 - 10  0 - 10  0 - 10	d.	Destination	0-2
23. Ensure Truck is safe to pass  a. Wheel Chocks b. Master Switch  24. Proceed to 3930 Sill Ore pass  25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient 0 - 10  27. Construction Method Sufficient 0 - 10 0 - 10	e.	Team Status	0-10
a. Wheel Chocks b. Master Switch  24. Proceed to 3930 Sill Ore pass  25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 10	22. Travel	to Truck location via Ramp Portal	0-5
a. Wheel Chocks b. Master Switch  24. Proceed to 3930 Sill Ore pass  25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 10			
b. Master Switch 0 – 5	23. Ensure	e Truck is safe to pass	
b. Master Switch  24. Proceed to 3930 Sill Ore pass  25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 10  0 - 10	a.	Wheel Chocks	0-5
25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 3 0 - 2 0 - 10 0 - 10 0 - 10	b.	Master Switch	0-5
25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 3 0 - 2 0 - 10 0 - 10 0 - 10			
25. Contact BO  a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 3 0 - 2 0 - 10 0 - 10 0 - 10			
a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient 0 - 10	24. Proce	ed to 3930 Sill Ore pass	0-5
a. Report Conditions b. Time Limit to Build wall c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient 0 - 10			
b. Time Limit to Build wall  c. Report Increase in Temperature  d. Team Status  26. Fabricate Wall  a. Wall Completed within Time limit (20 min)  b. Construction materials used are sufficient  c. Construction Method Sufficient  0 - 2  0 - 3  0 - 10  0 - 10  0 - 10  0 - 10	25. Conta	ct BO	
b. Time Limit to Build wall  c. Report Increase in Temperature d. Team Status  26. Fabricate Wall  a. Wall Completed within Time limit (20 min)  b. Construction materials used are sufficient c. Construction Method Sufficient  0 - 2  0 - 3  0 - 10  0 - 10  0 - 10  0 - 10	a.	Report Conditions	0-3
c. Report Increase in Temperature d. Team Status  26. Fabricate Wall a. Wall Completed within Time limit (20 min) b. Construction materials used are sufficient c. Construction Method Sufficient  0-3  0-10  0-10	b.	Time Limit to Build wall	0-2
d. Team Status  0-10  26. Fabricate Wall  a. Wall Completed within Time limit (20 min)  b. Construction materials used are sufficient  c. Construction Method Sufficient  0-10  0-10	c.	Report Increase in Temperature	0-3
a. Wall Completed within Time limit (20 min) $0-20$ b. Construction materials used are sufficient $0-10$ c. Construction Method Sufficient $0-10$	d.	Team Status	0-10
a. Wall Completed within Time limit (20 min) $0-20$ b. Construction materials used are sufficient $0-10$ c. Construction Method Sufficient $0-10$			
b. Construction materials used are sufficient 0 – 10  c. Construction Method Sufficient 0 – 10			
c. Construction Method Sufficient 0 – 10		•	0 – 20
			0-10
d. Construction work evenly shared 0 – 10			
	d.	Construction work evenly shared	0-10

Revised: May 2016

Revised: May 2016



27. Contac	et BO	
	Report Conditions	0-3
	Report Status of Wall	0-5
	Time Limit	0 – 2
d.	Destination	0 – 2
е.	Team Status	0-10
		Ps.
28. Travel	to 150 L Refuge Station	0-5
29. Contac	ct Construction Miner	
	Perform verbal Primary	0-5
	Obtain info about his partner	0-5
	Place miner in a safe location (ie Refuge Station)	0-10
30. Conta	ct BO	
a.	Report Conditions	0-3
b.	Report Status of Construction Miner	0-5
c.	Time Limit	0-2
d.	Destination	0-2
е.	Team Status	0-10
31. Travel	to RV ramp via 4210 Spur X-over	0-5
	7 - 72 BAR 72 B W 75 - 59	W TI IIG



33. Contact BO via Radio	
a. Report Construction Miner	located 0 – 5
b. Report Conditions	0-3
c. Time Limit	0-2
d. Destination	0-2
e. Team Status	0-10
34. Ensure Scoop is safe	
a. Wheel Chocks	0-5
b. Master Switch	0-5
35. Perform First Aid (Primary)	
f. Airway	0-3
g. Breathing	0-3
h. Circulation	0-3
i. Gross Bleed Check	0-3
36. Apply oxygen to casualty	0-5
37. Identify as Load and Go	0-18
	OR
38. Perform First Aid (Secondary)	
j. Check head, eyes, ears	0-2
k. Check neck and throat	7 0-2 0-2
<ol> <li>Check arms (left and right)</li> </ol>	0-4
m. Check Torso (front and Side	es) 0 – 2
n. Check Pelvis	0-2
Revised: May 2016	Page   7 of 11 Workplace Safety North-
·	Safety North

Revised: May 2016



0.	Check Legs and Feet (left and right)	0-4
p.	Check Back	0-2
9 First A	aid Treatment	
	Put on medical gloves	0 – 5
	Support Casualty in position found	0-20
	Control bleeding	0-10
	Support Embedded object in position found	0-5
1.	Support Embedded object in position round	U-3
40. Locate	e rescue tools (eDraulics)	0-10
		The Artesta
41. Ensur	e tools are safe to use	0-5
42. Cut Ca	asualty Free	0-10
*********	-Once Casualty is cut free	
g.	Place casualty on their side in the basket	0-20
	Recheck vitals	0-5
	Evacuate casualty to surface	0-20
1.110000		110000000000000000000000000000000000000
	19870	

CANADA 2016



3. Contact BO	
a. Report Casualty turned over to F/A	0-5
b. Time Limit	0-2
c. Destination	0-2
d. Team Status	0-10
4. Get Team out of O <sub>2</sub>	0-10
Miscellaneous:	
	Demerit
Extreme unsafe action:	Max (-25)
Extreme poor casualty Care:	Max (-20 per casualty)
	100
CANADI	2016
Damage to Mine Rescue Equipment:	Max (-5 per item)



THE THE SECOND OF THE SECOND O
ESTATION CONTRACTOR CO
- 455,64 (55-44 156)
928 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
FA SASAS BASIS
W - NE TO I WE RESE TO THE RESE
THE RESERVE ASSESSMENT OF THE SECOND



Team Number	Tuesday August 23rd, 2016		
1	Canada 2	Vale Manitoba Operations	
2	Canada 2	Sudbury Basin Cobras, KGHM	
3	Canada 2	Vale Sudbury West Mines	
4	AZU	MSHA Mine Emergency Unit No.1	
	— Break —	Break	
5	Russia	EMERCOM	
6	Russia	JSC SUEK	
7	India	Singareni	
8	India	Coal India Ltd.	
9	Vietnam	Vinacomin	
10	Slovakia	НВР	
11	Australia	Peabody Energy Wambo Coal	
12	Multinational	Goldcorp Americas	
13	Canada 1	Agnico Eagle Goldex Mine	
	Break	— Break —	
14	Canada 1	Compass Minerals Goderich Mine	
15	Canada 1	Cameco McArthur River	
16	Canada 1	Kirkland Lake Gold	
17	Calumbia	Colombia Coal Company	
18	Columbia	Fiebre del Oro (Gold Fever)	
19	Ukraine	State Militarized Mine Rescue Squad	
20	China	Guizhou Yonggui Energy Company	
21	China	China Pingmei Senma Group	
22	China	Shaanxi Coal and Chemical Group	
	Break	Break	
23	Poland	Bytom Weglokoks	
24	Poland	Scorpions Team Katowice	
25	Poland	Gray Wolfs	
26	Poland	KGHM White Eagles	
27	Ireland	Boliden Tara Mines	

Revised: May 2016 Page | 11 of 11



Revised: May 2016



ne U	Inder C	Time Casualt	ty at F/A
			MERIT
1.	Team	to be briefed by Briefing Officer	0-5
		Information Available	0-2
		Missing People Underground	0-2
		Actions Taken So far	0-2
		Team Assignment	0-2
		Route of travel	0-2
	f.	Reserve Mine Rescue Teams	0-2
	g.	Expected Conditions	0-2
	h.	Mine Rescue Equipment available	0-2
		Transportation available	0-2
	j.	Location of First aid	0-2
	k.	Communication Method	0-2
	l.	Synchronize Watches	0-2
	m.	Establish Time Limits	0-2
		The Committee of the Co	
2.	Prepa	re Emergency equipment to be used underground	
	a.	Gas checking equipment	0-3
	b.	First Aid Supplies	0-3
	c.	Back up apparatus for team	0-5
	d.	Maps, note pad	0-5
	e.	Basket/Backboard	0-3
	f.	Casualty Breathing Apparatus	0-5
	g.	Firefighting equipment	0 – 5



3. Prepare team breathing apparatuses	
a. Perform high pressure leak test	0-10
b. Install Ice	0-5
c. Anti fog mask	0-5
1. Team under oxygen outside of Fresh Air Base	0 – 10
5. Verify breathing apparatus is functioning properly	0-10_
5. Ensure Toyota operator is wearing breathing apparatus	0-5_
7. Contact BO	
a. Time Limit	0-2_
b. Destination	0-2
c. Time Team under 0 <sub>2</sub>	0-2_
3. Board Toyota in a safe manner	0-5
9. Enter mine via Portal	0-5_
10. Stop inside of portal	0-5_
	ere area



	11. Evaluate Conditions			
		a.	Smoke	0-2
		b.	CO	0-2
		c.	Radio	0-2
_		N.		<u> </u>
_				
	12. Perform Team Check			
	12. I CHOIM I Call Check	d.	BG4 functioning	0-5
			Team OK	
			Record info	0-5
			Mecord into	0 5
	13. Contact PO via radio			
	13. Contact BO via radio			0 7
	a. Report Conditions			0-3
	b. Team Status			0-2
	JEERHOUSE AND HER			
	14. Proceed down ramp via Toyota			0 - 5
	14. Proceed down ramp via Toyota			
_				Up Co-Dig
	15. Locate unconscious Truck Operator			0-20 20
	13. Locate unconscious Truck Operator			0-20
	16年12年12年16年16	moun		V*
	16. Contact BO via Radio			==
	a. Report Truck operator located			0-5
	b. Report Conditions			0-3 <u>f</u> 0-2 <u>2</u>
		.7.		0-2 2
	c. Time Limit  d. Destination	₹.,		0-2 2-
	e. Team Status			0-10 /0
_				



17. Perform First Aid (Primary)	
a. Airway	0-3_3_
b. Breathing	0-3 3
c. Circulation	0-3 0-3 0
d. Gross Bleed Check	0-3 <u>3</u>
and the second of the second o	
18. Protect Casualty from further contamination	0-5_5
	THE REPORT OF THE PARTY OF THE
19. Identify as Load and Go	0-18 <u>/8</u>
OR	
Perform First Aid (Secondary)	
a. Check head, eyes, ears	0-2
b. Check neck and throat	0-2
c. Check arms (left and right)	0-4
d. Check Torso (front and Sides)	0-2
e. Check Pelvis	0-3/
f. Check Legs and Feet (left and right)	0/4
g. Check Back	Ø-2
19. Load casualty into stretcher	0-10_/0
20. Transport Casualty to First Aid (surface)	0-10_/0



21. Conta	ct BO from FAB	
a.	Report Casualty turned over to F/A	0-5
b.	Report Toyota is no longer available	0-3
c.	Time Limit	0-2
d.	Destination	0-2
e.	Team Status	0-10
22. Travel	to Truck location via Ramp Portal	0-5
23. Ensur	e Truck is safe to pass	^
	Wheel Chocks	0-5
b.	Master Switch	0-5 0-5 0
24. Proce	ed to 3930 Sill Ore pass	0-5
25. Conta	ct BO	
	Report Conditions	0-3
	Time Limit to Build wall	0-2
c.	Report Increase in Temperature	0-3
	Team Status	0-10
26. Fabric	ate Wall	
2	Wall Completed within Time limit (20 min)	0 – 20
		0 40
b.	Construction materials used are sufficient	0-10
b. c.	Construction materials used are sufficient Construction Method Sufficient Construction work evenly shared	0-10 0-10 0-10



		BAR SA
		Y VIII
7. Conta	rt BO	A Disco
	Report Conditions	0-3
	Report Status of Wall	0-5
	Time Limit	0-3
	Destination	0-2 0-2
	Team Status	0-10
e.	realit Status	0-10
98 Travel	to 150 L Refuge Station	0-5
.o. mave	to 130 Energie Station	
29. Conta	ct Construction Miner	
a.	Perform verbal Primary	0-5
	Obtain info about his partner	0-5
	Place miner in a safe location (ie Refuge Station)	0-10_
30. Conta	ct BO	
a.	Report Conditions	0-3
b.	Report Status of Construction Miner	0-5
c.	Time Limit	0-2
d.	Destination	0-2
e.	Team Status	0 – 10
31. Trave	to RV ramp via 4210 Spur X-over	0-5
Ā	P TO FR. S. S. S. VA. DVA. T. D. S.	



33. Contact BO via Radio		
	ction Miner located	0-5
b. Report Condition		0-3
c. Time Limit	VEW REFERENCE	0-2
d. Destination		0-2
e. Team Status		0-10
34. Ensure Scoop is safe		
a. Wheel Chocks		0-5
b. Master Switch		0-5
A 10 10 10 10 10 10 10 10 10 10 10 10 10	THE REAL PROPERTY.	
35. Perform First Aid (Prim	nary)	
f. Airway		0-3
g. Breathing		0-3
h. Circulation		0-3
i. Gross Bleed Ch	eck	0-3
	IN THE PARTY OF	MEN THE WAR WAR TO THE TOTAL PROPERTY OF THE
ME AND DESIGNATION OF THE PARTY		
36. Apply oxygen to casua	lty	0-5
Na Anni	STATE OF THE STATE	AD LIE BRAILINGS
37. Identify as Load and G	0	0 – 18
	OR	
38. Perform First Aid (Sec	• •	
j. Check head, ey	No. 10 - 49 MM 100 MM 100 MM	0-2
k. Check neck and		0-2
l. Check arms (let		0-4
m. Check Torso (fr	ont and Sides)	0-2
n. Check Pelvis		0-2
Revised: May 2016	Page   7 of 11	Workplace Safety North -

Revised: May 2016



o. Check Legs and Feet (left and right)	0-4
p. Check Back	0-2
9. First Aid Treatment	
c. Put on medical gloves	0 – 5
d. Support Casualty in position found	0 – 20
e. Control bleeding	0-10
f. Support Embedded object in position found	0-5
0. Locate rescue tools (eDraulics)	0-10
1. Ensure tools are safe to use	0-5
2. Cut Casualty Free	0-10
Once Casualty is cut free	
g. Place casualty on their side in the basket	0-20
h. Recheck vitals	0-5
i. Evacuate casualty to surface	0 – 20
	· · · · · · · · · · · · · · · · · · ·
	100

CANADA 2016



a. Report Casualty turned over to F/A	0-5
b. Time Limit c. Destination	0-2
d. Team Status	0-2 0-10
G. Team status	
4. Get Team out of O <sub>2</sub>	0-10
Miscellaneous:	
	Demerit
Extreme unsafe action:	Max (-25)
TO THE STATE OF TH	
Extreme poor casualty Care:	Max (-20 per casualty)
CARIADA	1 2016
Damage to Mine Rescue Equipment:	Max (-5 per item)



	-
THE RESIDENCE OF THE PARTY OF T	
	_
	3
	_
The same of the sa	
	_
CONTROL OF A CONTROL OF A SECOND OF A SECO	
	- 10
	_
AND THE DATE OF THE PARTY OF TH	
	_
	100
	_
N THE PART OF THE	
	_
	_

Revised: May 2016



Team Number	Tuesday Au	gust 23rd, 2016
1	Canada 2	Vale Manitoba Operations
2	Canada 2	Sudbury Basin Cobras, KGHM
3	Canada 2	Vale Sudbury West Mines
4	USA	MSHA Mine Emergency Unit No.1
	— Break —	Break
5	Russia	EMERCOM
6	Russia	ISC SUEK
7	India	Singareni
8	India	Coal India Ltd.
9	Vietnam	Vinacomin
10	Slovakia	HBP
11	Australia	Peabody Energy Wambo Coal
12	Multinational	Goldcorp Americas
13	Canada 1	Agnico Eagle Goldex Mine
	Break	Break
14	Canada 1	Compass Minerals Goderich Mine
15	Canada 1	Cameco McArthur River
16	Canada 1	Kirkland Lake Gold
17	Columbia	Colombia Coal Company
18	Columbia	Fiebre del Oro (Gold Fever)
19	Ukraine	State Militarized Mine Rescue Squad
20	China	Guizhou Yonggui Energy Company
21	China	China Pingmei Senma Group
22	China	Shaanxi Coal and Chemical Group
	— Break —	Break
23	Poland	Bytom Weglokoks
24	Poland	Scorpions Team Katowice
25	Poland	Gray Wolfs
26	Poland	KGHM White Eagles
27	treland	Boliden Tara Mines

Mighter with this wife My with eath collector offer with the Many with Many

#3



me Unde	er O <sub>2</sub> Time C	Casualty at F/A
	Reserved A Rose Drope	MERIT
1. Ted	am to be briefed by Briefing Officer	0-5
	a. Information Available	0-2
	b. Missing People Underground	0-2
	c. Actions Taken So far	0-2
	d. Team Assignment	0-2
	e. Route of travel	0-2
	f. Reserve Mine Rescue Teams	0-2
	g. Expected Conditions	0-2
	h. Mine Rescue Equipment available	0-2
	i. Transportation available	0-2
	j. Location of First aid	0-2
	k. Communication Method	0-2
	I. Synchronize Watches	0-2
	m. Establish Time Limits	0-2
<u> </u>		
2. Pre	pare Emergency equipment to be used undergr	round
	a. Gas checking equipment	0-3
	b. First Aid Supplies	0-3
	c. Back up apparatus for team	0-5
	d. Maps, note pad	0-5
	e. Basket/Backboard	0-3
	f. Casualty Breathing Apparatus	0-5
	g. Firefighting equipment	0-5



Prepare team breathing apparatuses     a. Perform high pressure leak test     b. Install ice	0-10 0-5
c. Anti fog mask	0-5
4. Team under oxygen outside of Fresh Air Base	0-10
5. Verify breathing apparatus is functioning properly	0 – 10
6. Ensure Toyota operator is wearing breathing apparatus	0-5
7. Contact BO	
a. Time Limit	0-2
b. Destination	0-2
c. Time Team under 0 <sub>2</sub>	0-2
8. Board Toyota in a safe manner	0-5
9. Enter mine via Portal	0-5
10. Stop inside of portal	0-5
	100-; t-00 ,000.
UAINAUA ZI	UIO



11. Evaluate Conditions			
	a.	Smoke	0-2
	b.	CO	0 – 2
	c.	Radio	0-2
	<u> </u>	NO 6 DESCRIPTION AND	
12. Perform Team Check			
	d.	BG4 functioning	0 – 5
	e.	Team OK	0-5
	f.	Record info	0-5
13. Contact BO via radio	ismon.	A	-
a. Report Conditions			0-3
b. Team Status			0-2
14. Proceed down ramp via Toyota			0-5
15. Locate unconscious Truck Operator			0 - 20
16. Contact BO via Radio	91		
a. Report Truck operator located			0-5
b. Report Conditions			0-3
c. Time Limit			0-3
d. Destination			0-2
e. Team Status			0-2
C. (Calli Status			0 – 10



17. Perform First Aid (Primary)	
a. Airway	0-3
b. Breathing	0-3
c. Circulation	0-3
d. Gross Bleed Check	0-3
18. Protect Casualty from further contamination	0-5
	0.10
19. Identify as Load and Go	0-18
OR	
Perform First Aid (Secondary)	
a. Check head, eyes, ears	0-2
b. Check neck and throat	0-2
c. Check arms (left and right)	0-4
d. Check Torso (front and Sides)	0-2
e. Check Pelvis	0-2
f. Check Legs and Feet (left and right)	0-4
g. Check Back	0-2
19. Load casualty into stretcher	0-10
20. Transport Casualty to First Aid (surface)	0-10



21. Contact BO from FA	AB	
a. Report Casu	alty turned over to F/A	0-5
Live Andrew	ta is no longer available	0-3
c. Time Limit		0-2
d. Destination		0 – 2
e. Team Status		0-10
22. Travel to Truck loca	tion via Ramp Portal	0-5
23. Ensure Truck is safe		
a. Wheel Choc		0-5
b. Master Swit	ch 1	0-5
24. Proceed to 3930 Sil	l Ore pass	0-5
25. Contact BO		2
a. Report Cond		0-3
b. Time Limit t		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
-	ase in Temperature	0-3 / 3-
d. Team Status		0-10

26. Fabricate Wall

a. Wall Completed within Time limit (20 min) 6:20 14. b. Construction materials used are sufficient

0-20\_20

0-10 10 0-10 10

c. Construction Method Sufficient d. Construction work evenly shared

0-10 10

Revised: May 2016

Page | 5 of 11



27. Contact BO		N N
a. Repo	rt Conditions	0-3
b. Repo	rt Status of Wall	0-5 5
c. Time		0-2
d. Desti	nation	0-2 <b>2</b> .
e. Tean	Status	0-10 10
28 Travel to 150	) L Refuge Station	0-5
20. Havel to 15.	o Energe Station	0-5
AB		
29. Contact Con	struction Minor	
	orm verbal Primary	0-5
	in info about his partner	0-5
	miner in a safe location (ie Refuge Station)	0-5 0-10
	APTEND OF THE PARTY	
30. Contact BO		
a. Repo	rt Conditions	0-3
b. Repo	rt Status of Construction Miner	0-5
c. Time	Limit	0-2
d. Desti	nation	0-2
e. Tean	Status	0-10
31. Travel to RV	ramp via 4210 Spur X-over	0-5
. (	ANADA 26	116
32. Locate Injur	ed Construction miner at DS7	0-20



33. Conta	ct BO via Radio	
a.	Report Construction Miner	located 0-5
	Report Conditions	0-3
	Time Limit	0-2
d.	Destination	0-2
e.	Team Status	0-10
	e Scoop is safe	
	Wheel Chocks	0-5
b.	Master Switch	0-5
-	AND STATE	
	rm First Aid (Primary)	
	Airway	0-3
·	Breathing	0-3
	Circulation	0-3
l.	Gross Bleed Check	0-3
•		
	arrament v	
36. Apply	oxygen to casualty	0-5
37. Identi	fy as Load and Go	0-18
		OR
38. Perfoi	rm First Aid (Secondary)	
i.	Check head, eyes, ears	0-2
•	Check neck and throat	0-2
l.	Check arms (left and right)	0-4
m.	Check Torso (front and Sid	
n.	Check Pelvis	0-2
Revised: May 2	016	Page   7 of 11 Workplace
nevideu, ividy Z	010	Safety North

Revised: May 2016



o. Check Legs and Feet (left and right)	0-4
p. Check Back	0-2
	VA A
9. First Aid Treatment	
c. Put on medical gloves	0-5
d. Support Casualty in position found	0 – 5 0 – 20
e. Control bleeding	0-10
f. Support Embedded object in position found	0-10
i. Support Embedded object in position round	0-3
D. Locate rescue tools (eDraulics)	0-10
1. Ensure tools are safe to use	0-5
2. Cut Casualty Free	0-10
2. Cut Casualty Free	0-10
Once Casualty is cut free	
g. Place casualty on their side in the basket	0-20
h. Recheck vitals	0-20
i. Evacuate casualty to surface	0-3
i. Evacuate casualty to surface	0-20

CANADA 2016



3. Contact BO  a. Report Casualty turned over to F/A	0-5
b. Time Limit	0-2
c. Destination	0-2 0-10
d. Team Status	0-10
4. Get Team out of O <sub>2</sub>	0-10
Miscellaneous:	
	Demerit
Extreme unsafe action:	Max (-25)
	of them are a market for
	This Alexandri History
Extreme poor casualty Care:	Max (-20 per casualty)
	- 00-0
	A4/ F
Damage to Mine Rescue Equipment:	Max (-5 per item)



					000000000000000000000000000000000000000	20		
						4000	W2-60 I	
			1 271			ANDER	7419	
			AVL		All the same	Almost .	- Nation	
1000		100	THE PERSON NAMED IN		1 1	17 11 13	100	7775
	1 1 1 1 1 1 1 1	1700			1000		April 1	_
			107		S Visite	ALC: N	557	
3.		The second second second	- eres r		Although Although the same			
						-		92
								_
	7. 110				Compagnic		-350 70000	
-		w119	THE CO		310	IIIIu.		
		April 1879				Participation of the Control of the		
								(E. C. 100)
-								
				\$3172				
			REPERM	Qu.			Garage	
-		Service and the	A					
	med military							
		All Constant			The state of		The second	
			HI MERCEL		11000000			
			The Wallings	and and a			THE PARTY OF THE P	
***			HER HEYESTI	BOLL IV			XHEATE:	
							Branch III	
		WHI I			S HADOLE	AND DESCRIPTION	ESPHILL	
- 1		*******	- 1			100 100 100 110		
						The Device of the Control		-
					LIE NO		District Control	
		- II III lessificati	100					
		AND STATE OF THE STATE OF						
		- 5H46		willia	SEMBLUMBA	CHILDRY.		
_				400				
			Hadf Gulf	S. BLAV				
				0.000				
-		A 70 T-						0.000
							986.292	
			Intel Control	-		mile, from	Jan S.	
	AN THE	NE IN	A WA	H W A	PB #3	F 49 70 9	160	
	Va-0-1		40 W	12 19 17		0.7 .0	6.8	
_	Alegania to	the state of the	WALLEY MEGA		Home Ru-	D 701/07 1915	at Whate	
90				2000				2
20 Tu	200							



Team Number	Tuesday August 23rd, 2016		
1	Canada 2	Vale Manitoba Operations	
2	Canada 2	Sudbury Basin Cobras, KGHM	
3	Canada 2	Vale Sudbury West Mines	
4	USA	MSHA Mine Emergency Unit No.1	
	Break	Break	
5	Russia	EMERCOM	
6	Russia	JSC SUEK	
7	India	Singareni	
8	India	Coal India Ltd.	
9	Vietnam	Vinacomin	
10	Slovakia	HBP	
11	Australia	Peabody Energy Wambo Coal	
12	Multinational	Goldcorp Americas	
13	Canada 1	Agnico Eagle Goldex Mine	
	— Break —	— Break —	
14	Canada 1	Compass Minerals Goderich Mine	
15	Canada 1	Cameco McArthur River	
16	Canada 1	Kirkland Lake Gold	
17	Columbia	Colombia Coal Company	
18	Columbia	Fiebre del Oro (Gold Fever)	
19	Ukraine	State Militarized Mine Rescue Squad	
20	China	Guizhou Yonggui Energy Company	
21	China	China Pingmei Senma Group	
22	China	Shaanxi Coal and Chemical Group	
	Break	Break	
23	Poland	Bytom Weglokoks	
24	Poland	Scorpions Team Katowice	
25	Poland	Gray Wolfs	
26	Poland	KGHM White Eagles	
27	treland	Boliden Tara Mines	

Revised: May 2016



THE RESIDENCE OF THE PARTY AND THE PARTY AND THE PARTY.



	Oz China Z. Time Casualty at F.	
me Under	O <sub>2</sub> Time Casualty at F	
2	320 good support - cets of cet down quickly by want	MERITS
1 Team	to be briefed by Briefing Officer	0-5
		0-2
h.	Information Available Aug handage Missing People Underground	0-2
c.	Actions Taken So far	0-2
	Team Assignment - reasonable sha	1- 1-2
	Route of travel	<i>i</i> -2
	Reserve Mine Rescue Teams	0-2
•	Expected Conditions	0-2
_	Mine Rescue Equipment available	0-2
	Transportation available	0-2
	Location of First aid Q 300	15 m 0 - 2
-	Communication Method	15 M 05.2
1.		0-2
m	. Establish Time Limits	0-2
	went down	ramp Ring
	are Emergency equipment to be used underground	Teo H
	Gas checking equipment	0-3
b.	First Aid Supplies	0-3
C.		0-5
d.	70.00	0-5
e.		0-3
f.		0-5
g.	Firefighting equipment	0 – 5

\* Revised: May 2016 Page | 1 of 11

Workplace Safety North-



Prepare team breathing apparatu	
<ul><li>a. Perform high pressure lead</li><li>b. Install Ice</li></ul>	k test 0 – 10 0 – 5
	0-5
c. Anti fog mask	0-3
Team under oxygen outside of Fro	esh Air Base 0 – 10
Verify breathing apparatus is fund	ctioning properly 0 – 10
Ensure Toyota operator is wearin	g breathing apparatus 0 – 5
Contact BO	
a. Time Limit	0-2
b. Destination	0-2
c. Time Team under 0₂	0-2
Board Toyota in a safe manner	0-5_
Enter mine via Portal	0-5
O. Stop inside of portal	0-5



11. Evaluate Conditions			
	a.	Smoke	0-2
	b.	CO	0-2
	c.	Radio	0-2
12. Perform Team Check			
		BG4 functioning	0-5
		Team OK	0-5
	f.	Record info	0-5
13. Contact BO via radio			0.3
a. Report Conditions b. Team Status			0-3 0-2
b. team Status			0-2
14. Proceed down ramp via Toyota	14.16		0-5
15. Locate unconscious Truck Operator			0 - 20
16. Contact BO via Radio			
a. Report Truck operator located			0-5
b. Report Conditions			0-3
c. Time Limit			0-3
d. Destination			0-2
e. Team Status			0-10
e. Team Status			0-10



17. Perfo	m First Aid (Primary)	
a.	Airway	0-3
b.	Breathing	0-3
c.	Circulation	0-3
d.	Gross Bleed Check	0-3
18. Prote	ct Casualty from further contamination	0-5
19. Identi	fy as Load and Go	0-18
	OR	
Perfo	rm First Aid (Secondary)	
a.	Check head, eyes, ears	0-2
b.	Check neck and throat	0-2
c.	Check arms (left and right)	0-4
d.	Check Torso (front and Sides)	0-2
e.	Check Pelvis	0-2
	Check Legs and Feet (left and right)	0-4
g.	Check Back	0-2
10 1 1		0. 10
	port Casualty to First Aid (surface)	0-10

Revised: May 2016



21. Contac	ct BO from FAB	
a.	Report Casualty turned over to F/A	0-5
<ul><li>b. Report Toyota is no longer available</li><li>c. Time Limit</li></ul>		0-3
		0-2
d.	Destination	0-2
e.	Team Status	0-10
22. Travel	to Truck location via Ramp Portal	0-5
23. Ensure	e Truck is safe to pass	
	Wheel Chocks	0-5
b.	Master Switch	0-5
24. Procee	ed to 3930 Sill Ore pass	0-5
25. Contac		
	Report Conditions	0-3
	Time Limit to Build wall	0-2
	Report Increase in Temperature Team Status	0-3 0-10
26. Fabric		
	Wall Completed within Time limit (20 min)	0 – 20
b.	Construction materials used are sufficient	0-10
	Construction Method Sufficient	0-10
C.	Construction work evenly shared	0-10



		1
27. Contact 6		
	eport Conditions	0-3
	eport Status of Wall	0-5
	me Limit	0-2
	estination	0 – 2
e. Te	eam Status	0-10
28. Travel to	150 L Refuge Station	0-5
<del></del>		
	Construction Miner	0-5
	erform verbal Primary	0-5
	btain info about his partner lace miner in a safe location (ie Refuge Station)	0-10
	ace miles in a sare location for iterage station,	
73/11		
30. Contact	BO	
a. R	eport Conditions	0-3
b. R	eport Status of Construction Miner	0-5
c. T	ime Limit	0-2
d. D	estination	0-2
e. T	eam Status	0-10
31. Travel to	RV ramp via 4210 Spur X-over	0-5
69	THE PART OF BUILDING	
22   00040	njured Construction miner at DS7	0-20 20



33. Contact BO via Radio	2 7 1 1
a. Report Construction Miner located	0-5 2 60 100
b. Report Conditions	0-3_1
c. Time Limit	0-3 0-2 2 0-2
d. Destination	0-2_0
e. Team Status	0-10
34. Ensure Scoop is safe	
a. Wheel Chocks	0-5 0
b. Master Switch	0-5
35. Perform First Aid (Primary)	
f. Airway	0-3
g. Breathing	0-3 3 0-3 3 0-3 3
h. Circulation	0-3 3
i. Gross Bleed Check	0-3_1_
36. Apply oxygen to casualty	0-5
37. Identify as Load and Go	0-18_13
OR	
38. Perform First Aid (Secondary)	
j. Check head, eyes, ears	0-2
k. Check neck and throat	0-2
I. Check arms (left and right)	0-4
m. Check Torso (front and Sides)	0 – 2
n Chack Palvis	0_2

Revised: May 2016

Page | 7 of 11

Workplace Safety North



nent nedical gloves Casualty in position found bleeding Embedded object in position found ools (eDraulics)	0-2 0-5 0-20 0-20 0-10 8 0-5 3 0-10
nedical gloves Casualty in position found bleeding Embedded object in position found	0-10
nedical gloves Casualty in position found bleeding Embedded object in position found	0-10
nedical gloves Casualty in position found bleeding Embedded object in position found	0-10
Casualty in position found bleeding Embedded object in position found	0-10
bleeding Embedded object in position found	0-10
Embedded object in position found	0-10
ools (eDraulics)	
e safe to use	0-5_5
ee	0-10
sualty is cut free	
sualty on their side in the basket	0-20 20
	0-5
7 CONT	0-20_20 0-5 0-20_ <b>20</b> 10
	sualty is cut free sualty on their side in the basket c vitals se casualty to surface

Workplace Safety North-

Revised: May 2016



a. Report Casualty turned over to F	/A 0-5
b. Time Limit c. Destination	0-2
d. Team Status	0-2 0-10
4. Get Team out of O <sub>2</sub>	0-10
	Harrish.
Miscellaneous:	
	Demerit:
Extreme unsafe action:	Max (-25)
Extreme poor casualty Care:	Max (-20 per casualty)
OWNTHY	AT OATE
Damage to Mine Rescue Equipment:	Max (-5 per item)



				A Common		
10		47 H	HE Y	3 6 7		
5.00	SAF / West	507 Pits	1-1-1-1	7 1000		
	100	SECTION SECTION		No.		
	Est No.		BUR VI	A YESTIA	Aller	
				Cha Care	****	
			9-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
				115		
	-110 59/4					
3223.51		ARTHUR DE				
			ATTIMES.			
					1.6	
	ner des el ca			AND THE RES		-
.xtorem		(1/0)	50.00000			
		No. of the last of			Sant Sant	-
UNION PROPERTY.					III TOTAL IN THE STREET	
Distribution of the second			13			
			erasar Mil			
		AT THE				
	- in Silve nav	18	Name of the last		4143000	
-		0				
	The second secon				100174 10	10.00
	The state of the s					
			1			
9					Late .	
	Deller					
		in inter	Life water	ATT TO SERVICE STATE OF THE SE		
		WHEN BRIDE	H (HIII))			
	0.00					
					19.0 (0.00.100.00	
			8 8 8 5 1 USA			1000
Ci-Ly.	September 1990, 199			altern and	and one	
Alg. Vi	#8. TA	LEW NO.	TO PE	** W 28 W	Mr Bil	H U Di
500 200	A.A.A. 19	A.M. H.	PER	W. 10 V. 20	E VE	
			<u> </u>			

Revised: May 2016



Team	Tuesday Au	igust 23rd, 2016
Number	Canada 2	Vale Manitoba Operations
2	Canada 2	Sudbury Basin Cobras, KGHM
3	Canada 2	Vale Sudbury West Mines
4	USA	MSHA Mine Emergency Unit No.1
	— Break —	Break
5	Russia	EMERCOM
6	Russia	JSC SUEK
7	tndia	Singareni
8	India	Coal India Ltd.
9	Vietnam	Vinacomin
	Slovakia	HBP
10	Australia	
11	Multinational	Peabody Energy Wambo Coal Goldcorp Americas
12	Canada 1	Agnico Eagle Goldex Mine
13	Break	Agrico Eagle Golder Mille Break
		Compass Minerals Goderich Mine
14	Canada 1	
15	Canada 1	Cameco McArthur River Kirkland Lake Gold
16	Canada 1	
17	Columbia	Colombia Coal Company
18	Columbia	Fiebre del Oro (Gold Fever)
19	Ukraine	State Militarized Mine Rescue Squad
20	China	Guizhou Yonggui Energy Company
21	China	China Pingmei Senma Group
22	China	Shaanxi Coal and Chemical Group
	— Break —	Break
23	Poland	Bytom Weglokoks
24	Poland	Scorpions Team Katowice
25	Poland	Gray Wolfs
26	Poland	KGHM White Eagles
27	treland	Boliden Tara Mines

NAME AND ADDRESS OF THE OWNERS OF THE PARTY AND ADDRESS OF THE PARTY.



# APPENDIX A2 — CAPTAIN AND BRIEFING OFFICER REPORTS







# China Mine Rescue

/		1		(特殊设备)	1	9切并来组)		ille ille																			
盾助设备)	3/4		ope (队编) (	Special Equipment (特种设备)	ans (矿图)	scissor expander (剪切扩飛鉗)		<u></u>			,					Destination/Report										35	
Auxillary Equipment(辅助设备)	:(消防设备)		rescue rope (队地)	Special	Level Plans(新国)	scissor (		ille ille								Destinati	118		P. 60				-				
illary Eq	ednipment(消防设备)			(調金)	)	吸机	Bottle Pressures	i iiie	1								JE 57	TOP	公本	May 1		W.					
Aux	Fire fighting		HA)	Communications (通像)	Stretcher (担架)	Carevent (急救呼吸机)	Bottle P	<u>=</u>							20	Time Limit	1.10	4:11	9:45							1000	
	Fire 1		100  8(円類)	Commun	Streto	Careve		ille				8		e y		Flow			-						100 to 100 to	63	
		The state of the s	(	2016. 8.25		7		2					47			Fans							504				İ
MR Officer		100		'	Location	H H		<u>=</u>	1		50		* * * * * * * * * * * * * * * * * * * *	6a,		Doors			4		Ž,	100					
<b>E</b>	横河		Date	至	Later of the second	服务 位置	Under		2,12	12	167	154	156		30	₩.	7.00		Ī	5						of the	
A	dy.		77	140		BEN APP	Test	-st	1/2	15	128	176	174			02	17.4	5 . 1						X.		2	-
Captain	¥ ★		MIDE	学的	Team No.	队伍编号 📭	Field	Press	000	100	191	181	101	N.S. C.		8	90/1			100		411		== 3			The second second
	₹	1			ī	1	BG4	2	-	- 2	*	4	3	9	Hille	Smk	>							e-11 •			
Standard Equipment(标准设备)	Whistles (口母)/	TOTAL WITH	FIRST AID NIT(急救港)	Chalk/paint(超越/油漆)	Kestrel (红外城)	Clipboard (剪贴板)	A			848	m	7,3	42	3.		Location	17				00000						
idard Equ	-	-	$\overline{}$	_	1	Cli			Name	5	A					Lc	1/2				100		3	45,22			
Stan	MX6 (气体检测仪	00 gaa	SOR SO ( THE SE	Probe (紫春蕉)	Ked (#FHENCES)				Cantain	No. 2	No. 3	No. 4	V/Capt	No. 6	No. 7	Time	0:0	-912	. 10			* 0					



# China Mine Rescue

Location 位置:

Accident 事故:

Y/M/D/T: Pb. 8.25 Name 姓名: 第一个给赵

Mine Rescuse 数线队。 中国教者外 Captain 队长:

一、Conditions at Scene现场情况。

02: 20,96 %

二、Vital Signs 伤员症状:

Vital sign 有生命体征

Absence of vital signs 无生命体征

	为冷	被沿	小小
唐识	le	h	ń
Conscious	2	R	2
が減	M.	r,	13
Airway	<u>z</u> )	<b>E</b> )	3
呼吸	A	4	7
Breathe	Ø	Ø.	A
<b>斯</b> 華	*	10	18
Puise	X	14	772
大出血	A	1	í
Hemorrhea	2	N	K

# 三、Treatment 现场处置:

Load & Go	行走	AIR.	No. of the state o
Hemostasis	1上 如	A NA	Time 时间
Oxygen Applied 氧气应用	led 氧气冰用	MW	Time 时间 9,15
AED @	电子除颤仪	YVA	Time时间
Antishock	抗休克	WN	Time 野回 9、(の



# China Mine Rescue

Location 位置: Accident 事故:

女女佑 Name 姓名路

Y/M/D/T: 2016. 8.25.

1933来为A Captain队长:

Mine Rescuse 救援队:

一、Conditions at Scene现场情况。

02: 14.5 %

二、Vital Signs 伤员症状:

Vital sign 有生命体征

Absence of vital signs 无生命体征

	刘珍	横凉	除中
京都	W	10	砂
Conscions	14	70	2
<b>加</b>	4	0	10
Airway	NA NA	182	X
呼吸	4	16	1
Breathe	No.	74	Ø
本本	3	4	4
Pulse	R. C.	4	124
大出由		14	1
Hemorrhea	4	2	4

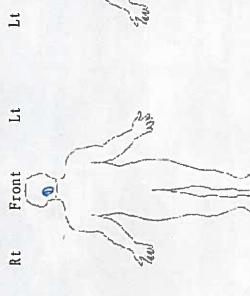
# 三、Treatment 现场处置:

		1	
Load & Go	行走	YIN	
Hemostasis	止血	AIN	Time 时间
Oxygen Applied 氧气应用	ied 氧气沙用	NIN	Time 时间 4.55
AED 电	电子除颤仪	AIM	Time时间
Antishock	抗休克	NIN	Time 年回 9.大ち



# China Mine Rescue

四、Injury to Describe 伤情描述



Rt		
Back	+	
Lt	and the same of th	

Describe 处置

Injury 伤情

中安

7 sogod

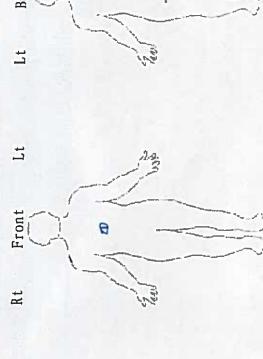
0



# China Mine Rescue

四、Injury to Describe 伤情描述

Rt



		-	_	_	_	_
Describe 处置	3 64 18 62L		14			
-uker-						
Injury 伤情	南/名.					
序号	€.					

# 救护以行为属来及定型过去年级。

- D. 被在保证安全的为护下.优色侦察 35保严重范值.3930...和验措施. 构纸档风梢.
- 9. 解持.漏风扣的.确风观扰、停止除风乱,水泵水升-切非被发至至电历. 时引吸注、楂菜包件变似情况、发死开产了严强知指挥发. 插挥发松搭 情况, 似只包含冰菜、为发现成助小队人发发至的.煽心时. 全州队是蓝玄 即作并
- ③. 时刘邓杲以及韩州北边南南龙呼及器状况. 发现有呼吸器故障证明、排除或以及醉不之时,立即抵商现分地点.
- D. 野 救护权的主要任务是 20、构纸档贝请 .3930 ②、 促暴 4260. ③. 予找被風水 并凝处.
- ⑤. 严格按照《洪莉感金和社》,《河山村护秘社》,拟介. 消乐自感金.

**秋**坟坟人 2016、8、85.

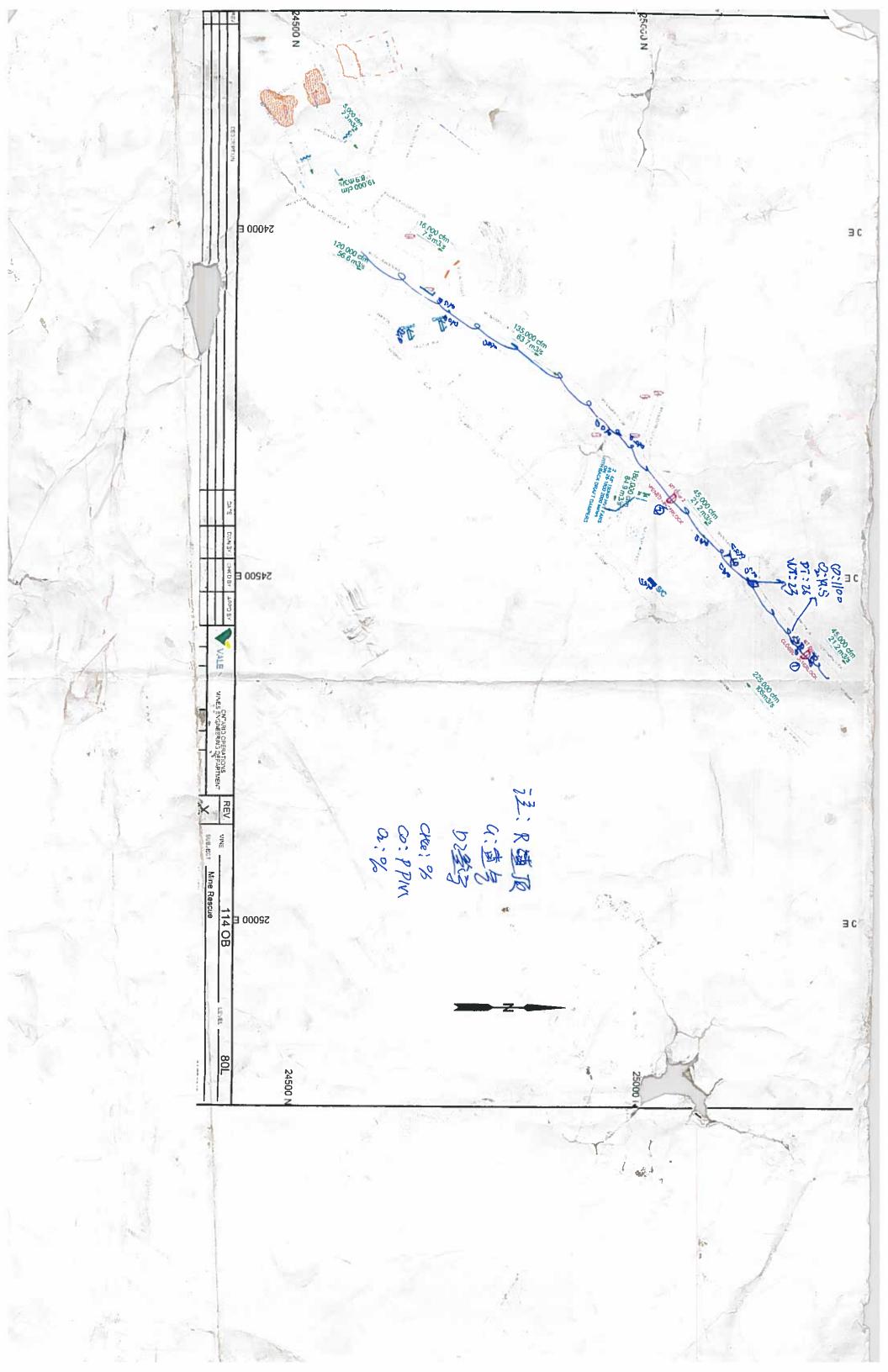
# ONTARIO MINE RESCUE

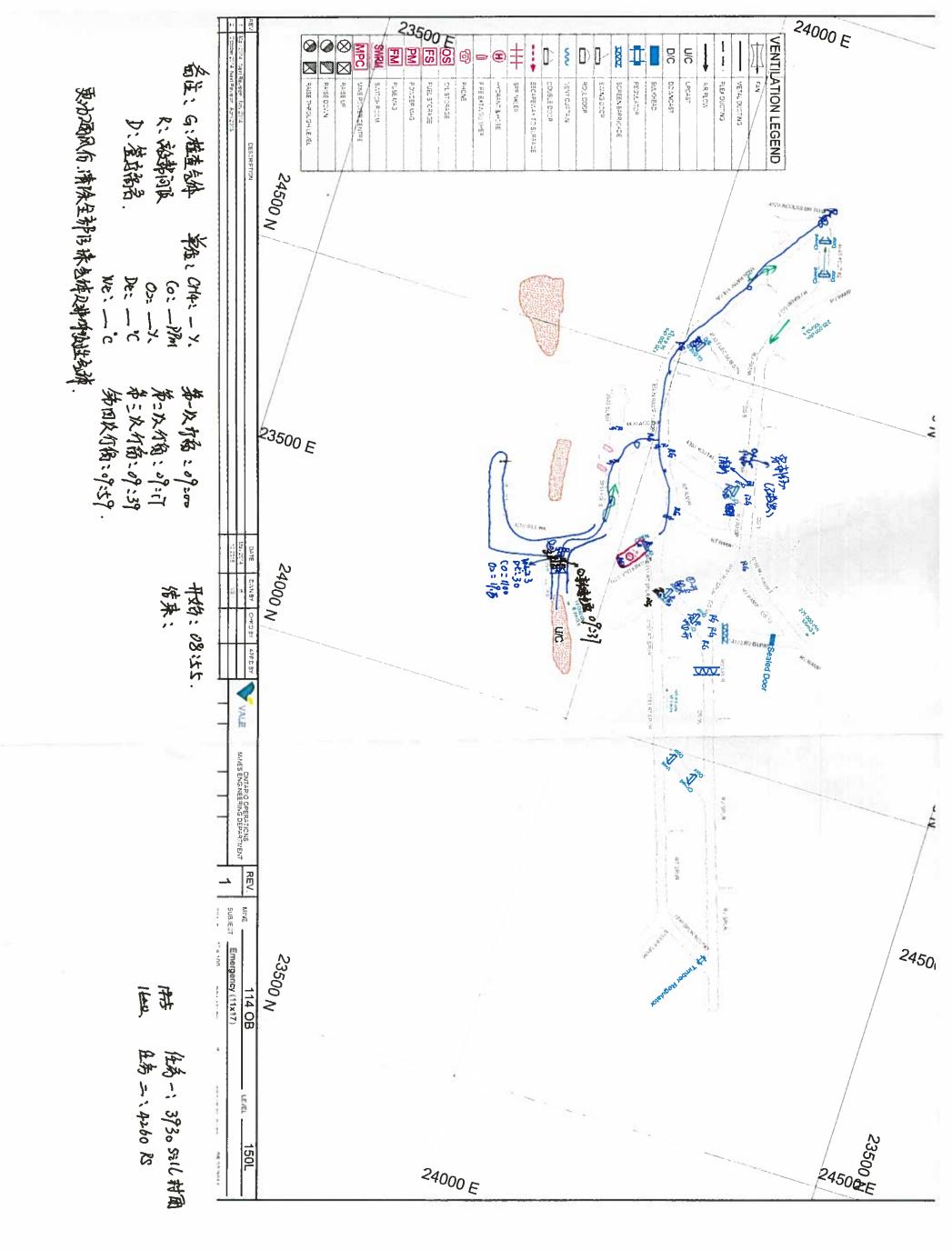
# ERICEING OFFICERS REPORT

1											Ontai	TIO M	Ontario Mine Rescue Heat Exposure Standard	scue	Hear	EX D	PSMI	e ora	nda	3		
There   Sortis   So			ı						_	700					-	18	18	18	18		200	
1	1			6	8 /	L				37						20	19	19	19	19	19	
Third:	22:80			`	56.0	. 1				36	1				22	22	21	20	20	19	19	19
1   1   1   1   1   1   1   1   1   1									W	35			8 1	0	24	23	22	22	22	21	20	20
Albert   A	1 000.			Hine:					el	40				27	26	25	24	ถ	23	22	22	22
Minnet									t E	33		1		25	28	27	27	26	25	24	23	17
Winds	10					4			3น	32			n		15	30	20	28	27	26	26	25
White:   Pality   P	3				200	. 52			lk	31			ñ	8	35	33	32	10	30	29	28	27
With Companies   With									> 7	30			H	-	40	36	36	75	33	32	30	38
ANN C	MILE			Mine:					Ге	28		100000	-		A	43	14	38	38	36	34	32
ANN Color   AN			100						m	28		3	-	1	125	20	47	45	43	41	39	27
ANNO:	X	-4			(c)	下され 2	C		р	27		7.2		-	80	57	54	52	49	47	45	43
A	<b>多</b>	7			1	する人	ŞV.		er	26	87	83	18	6.	GB CB	65	62	28	26	A)	51	49
新化	1000	7		100			7		ra	26	66	95	-	H	78	75	1.2	89	59	29	29	58
新花 海 crops CO O, CH4 DOOR Fan Flow Team Time Location Report APP CO O/2 1/2				MRO:					tu	1	+	108	100	-	18	53	18	7.0	74	71	67	64
3件 化									re	÷	+		H	-			CB	89	88	81	77	R
ST 7 146. I'M:  DOUBLE Fan Flow Team Time Location Report  DOY Build  DOY Bu	F	光ン								-	26	28		-		38	40	42	44	46	44	20
Sanoka   CO O; CH4   DOOR Fan Flow Team Time Location   100	1/18	K 1 M											Dr	y Bull		nper	ature					
100 (引5. 和高 1100 (引5. 和高 1100 (引5. ) 1100 (加5. )	16-25		00	603	CH	DOOR	Fan	Flow	Team			cation	Report						'n			
1   1   1   1   1   1   1   1   1   1	Les PAT		100	19.5.	1	中市				09:1	0 4	-41	1	£ 40	RE	12						
330 V 100 17	D 1837.	/	1/00	7.6'						6	A	-48	14 B	18	M							
1930 V 1100 11.T. /	TOO OO	>	2011	8						2	1	1		-					-			
4260 TOTAL SUN 5	10 3930	7	1100	17.5	1					093	57 3	30	松	改								
CLO BROWER	4260		/	質	/					00	10	260	KX	1.61	香	A A	H	*	M		N.	42
	NO 2.00 BRINE		1	\$0.5		Ī																
				A								-										



Fage | of







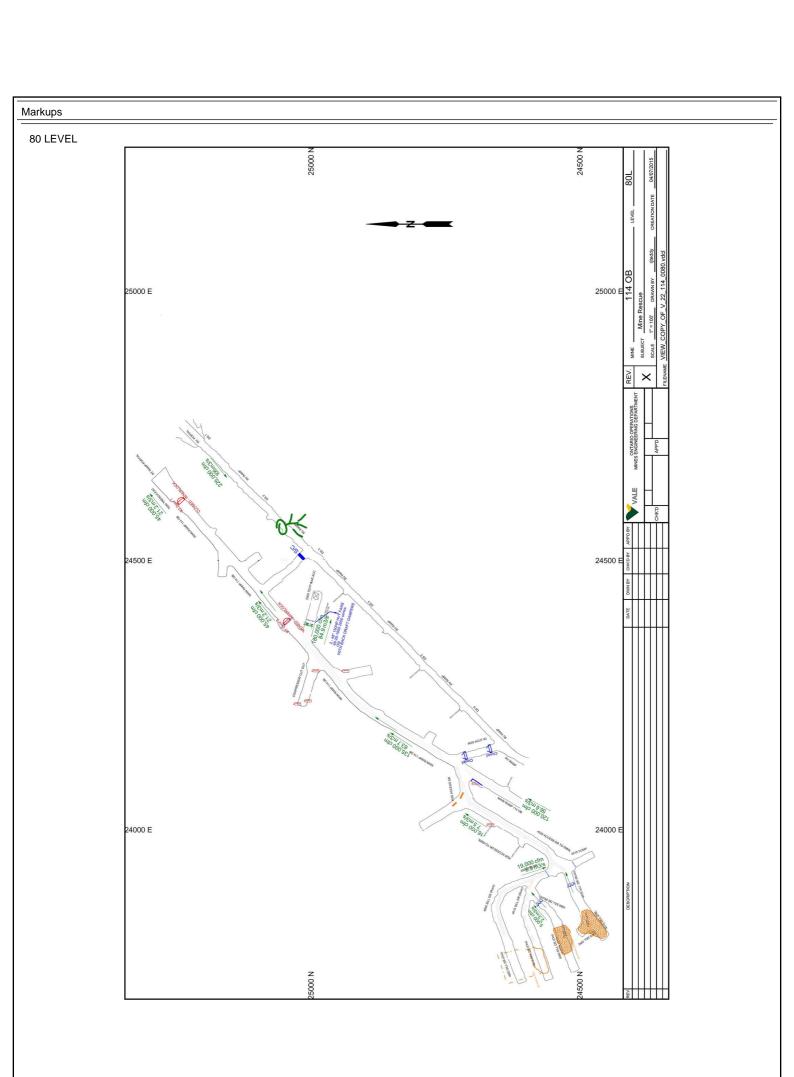
## APPENDIX A3 – TABLET DATA

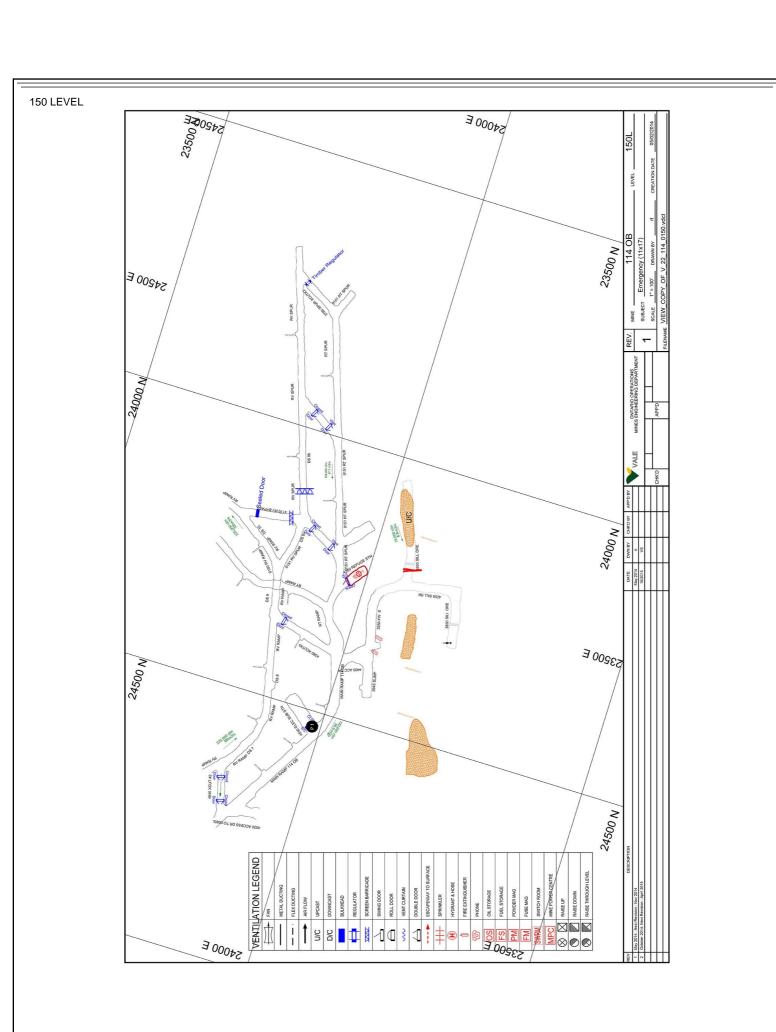


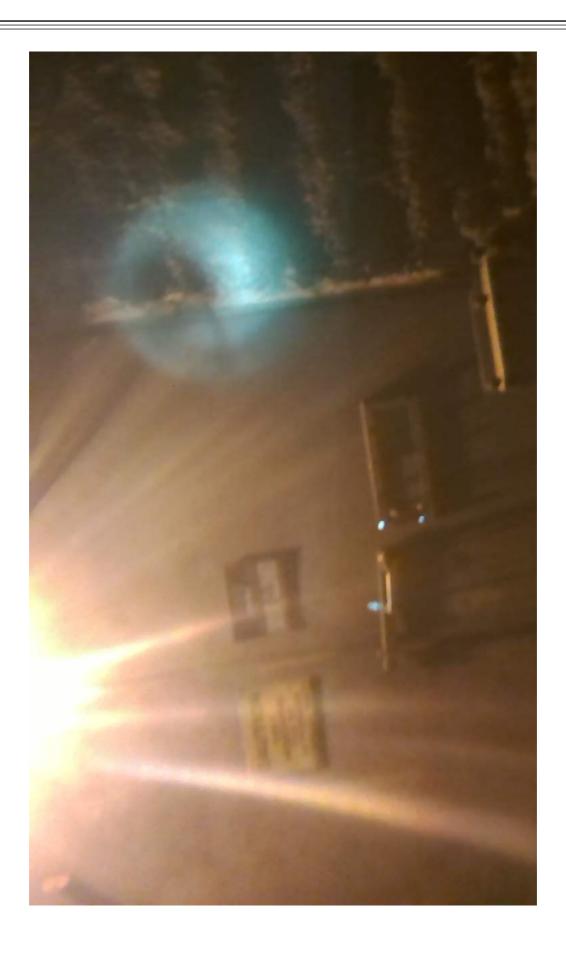




Incident ID:	2	01608241234	Mine		VALE	114 OB		Incident Type:	C	Competition		MARIA
Date & Time of Incident	of A	ug-24-2016 03:34						District	C	Competition		3 3
MRO	N	licole Darbaz										PRES INCE 1979
Team ID: 201	608241238	27	<u>'</u>				<u>'</u>					
Members:												
Role		Name		App	aratus #		F	Presure		Time		
Briefing Offic	er	Longqian L	iu									
Captain		Yuezhong l	_ou	1			2	200		03:38		
No. 2		Haizhu Cha	ing	2			2	200		03:38		
No. 3		Liming Xu		3			2	200		03:38		
No. 4		Zheng War	ıg	4			2	200		03:38		
V. Captain		Zilong Hou		5			2	200		03:38		
No. 6				·						,		
Captains Equi	pment											
Standard						Auxillary						
MX6 Gas Mo	nitor	0				Fire Figh	ting Eq	uipment	0	)		
SSR 90M (Te	am Unit)	0				Tools			0	)		
First Aid Kit		0				SSR 90			0	)		
Kestrel		0				Level Pla			0	)		
Chalk - Paint		0				Special E			0			
Probe Stick		0				Commun		S	0			
Draeger X-an	n 5000	0				Carevent			0			
BG4		0				Other			0			
Carevent		0				BG4			0			
Stretcher		0				Stretcher			0	1		
Fire Fighting Communication		0										
Whistles	0115	0				1						
VVIIISUES		Į0										
Captain's O2	Readings											
Time	С	aptain	No.2		No.3		No.4		V Capt	ain	No.6	
15:38	20	•	200		200		200		200			
07:10	1		1		1		1		1			
Captain's Note	es											
Time	Location	Smk	СО	O2	CH4	Do	ors	Fans	Flow	Time	Limit	Destination/ Report







200 LEVEL 24000 N 24500 N LENAME VIEW COPY OF V 22 114 0200.vdcl 24500 E 24500 E SUBJECT Emergency (11x17) ONTARIO OPERATIONS MINES ENGINEERING DEPARTMENT VALE 24000 E 24000 E VENTILATION OF GEND

REAN

METAL

MATANA SCREEN BARRICADE FIRE EXTINGUISHER HYDRANT & HOSE 23500 E FUEL STORAGE DOUBLE DOOR - - - FLEX DUCTING SWITCH ROOM SWING DOOR VENT CURTA POWDER MA RAISE DOWN ROLL DOOR SPRINKLER AIR FLOW BULKHEAD FUSE MAG D/C D/C 3 Œ 24500 N 24000 N

300 LEVEL 24000 N 24500 N 24500 E 24500 E ONTARIO OPERATIONS MINES ENGINEERING DEPART 24000 E 24000 E VENTILATIONE EGEND

FAN 00 00

METAL DICTING SCREEN BARRICADE FIRE EXTINGUISHER FLEX DUCTING 23500 E BULKHEAD 1 | D/C n/C 3 Œ 24500 N 24000 N

MRO Review

NDSEP15

Incident Summary

Date of Incident:

 Incident ID:
 201608241234

 Mine:
 VALE 114 OB

 District:
 Competition

Incident Type: Competition
Mine Rescue Officer: Nicole Darbaz

Aug-24-2016 03:34

Mutual Aid: Yes

Relief man on call: Nicole Darbaz

Time MRO Notified: Time MRO Arrived: -

Time MRO Supervisor Notified: Time First Team Arrived: Time Team Responded: -

Time All Clear: Injured Workers: Total Teams on Site: 1

Team ID: 20160824123827 20.23:56:36.3370000

Aditional Comments:



# APPENDIX B – UNDERGROUND FIRE FIGHTING SCENARIO







98





### SPECIFIC PROBLEM SCORESHEET

### UNDERGROUND FIREFIGHTING SCENARIO

# EVALUATOR REFERENCE INFORMATION Electrical Scenario

<u> </u>	
TEAM Pingmei Senma Group	
COUNTRY China	
Stop and assess hazard of electrical junction box arcing	(5)_5
Assure team safety by maintaining a respectful distance from the	ne arcing electrical
Team member proceeds past STOP line Team member proceeds past middle line Team stops before middle line	(0) (5) (10) <u>/</u> 0
Disconnect the power feed to the junction box.	(10) 10
Lockout power feed at junction box.	(10) <u>/ / / / </u>
Proceed past electrical box, down ramp.	(5) 5
Go directly to Shop	(5) _5

Notes:	
	•
100	
:	
TOTAL CCORE	45
TOTAL SCORE	
	10 NF
Printing mon	
EVALUATOR:	
Drint Noma	
Print Name:	
Signature:	
Distinction	<del></del>

a \$



### SPECIFIC PROBLEM SCORESHEET

## UNDERGROUND FIREFIGHTING SCENARIO

# EVALUATOR REFERENCE INFORMATION <u>Electrical Scenario</u>

TEAM CHINA PINGMEI SENMA	SROP
COUNTRY CHINA	
Stop and assess hazard of electrical junction box arcing	(5)
Assure team safety by maintaining a respectful distance from the	e arcing electrical
Team member proceeds past STOP line Team member proceeds past middle line Team stops before middle line	(0) (5) (10) <u>/O</u>
Disconnect the power feed to the junction box.	(10) _/O
Lockout power feed at junction box.	(10) /0
Proceed past electrical box, down ramp.	(5) 5
Go directly to Shop	(5) _5

Notes:	2 - 2
POOR EXACUTION DUMPING	THIS BOWER
<u> </u>	
	3311776 A -
	, /
TOTAL SCORE	45
EVALUATOR:	
Print Name: RICHARD D.	FRESM
	<del>- )</del>
$\mathcal{O}_{\Lambda} \cap \mathcal{O}_{\Lambda}$	
Signature: //	
	- Company





#2

### SPECIFIC PROBLEM SCORESHEET

## UNDERGROUND FIREFIGHTING SCENARIO

# EVALUATOR REFERENCE INFORMATION Electrical Scenario

TEAM China Pingmei Serma Group
COUNTRY China
Stop and assess hazard of electrical junction box arcing (5) 5
Assure team safety by maintaining a respectful distance from the arcing electrical
Team member proceeds past STOP line  Team member proceeds past middle line  Team stops before middle line  (0)  (5)  (10)
Disconnect the power feed to the junction box. (10) 10
Lockout power feed at junction box. (10) 10
Proceed past electrical box, down ramp. (5)
Go directly to Shop (5)5

Notes:	
Put himself at Risk	ocedure is not up to stand
TOTAL SCORE	45
EVALUATOR:	1
Print Name: Marsh Wa	1
Signature: Madel M	me





### SPECIFIC PROBLEM SCORESHEET

### UNDERGROUND FIREFIGHTING SCENARIO

### EVALUATOR REFERENCE INFORMATION Fresh Air Base and Briefing Officer

TEAM	Pinamei	Senma	Group	
COUNTRY	China			

The Briefing officer will receive a description of the scenario and an assignment from the Control Group.

The Briefing Officer, after collecting information will develop a plan of action for his team to safely and fully complete the assignment he received from the Control Group. He will then brief the team and relay the assignment and his plan of action.

Assemble information by asking "Control representative" for critical pieces of information.

Status of Ventilation	(y/n)
Status of Electrical Installations	(y/n)
Status of Compressed Air / Water	(y/n)
Availability of Back-up Team	(y/n)
Fire Fighting Equipment	(3) 3
Copy of Prints / Maps	(3) 3
History of Hazardous Gasses	(0)
Hazards to the team (ground conditions, open holes, etc.)	(3)
Refuge Area / Plan for his Team	(3) 3
Communications	(3) 3
History of Hazardous Gasses Hazards to the team (ground conditions, open holes, etc.) Refuge Area / Plan for his Team	$ \begin{array}{c c} (3) & 0 \\ (3) & 0 \\ (3) & 3 \\ (3) & 3 \end{array} $

1 | Parge

The Captain will ensure that every team member, including the Captain inspected before entering contamination. Every team member will be - To ensure that they are fit and OK to proceed - Check the SCBA Mask for a good seal - Check each members pressure	checked: (2 each) <u>/</u>
Contact the briefing officer to establish a destination	5
After Entering the Mine, the Mine Rescue Team Shall Evaluate Cond - Air Quality CO (2) O2 (2) Smoke Density (2)_	2
When Contamination is identified and the intent is to advance the tear of fresh air, into the contaminated atmosphere, the Captain must:  - Check the team in contaminated air - Confirm that each team member is OK to proceed - Report to the Briefing Officer	(5) <u>5</u> (1 ea) <u>/</u> (y/n)
Proceed down ramp	(5) 5
At Electrical Scenario:	
Report to Briefing Officer before proceeding to shop	(5)
At Fire Scene:	,
Notify Briefing Officer fire is out.	(5)
Receive a time limit back to surface.	(5)
Contact Briefing Officer when on surface.	(5)
Receive order to take team "out of Oxygen" then Stand Down	(5) 7 3   Page
	13

Shut off oxygen cylinders	(5)
Remove breathing apparatus face masks	(5)
Notes:	12
TOTAL SCORE	
EVALUATOR:	
Print Name:	
Signature:	
	4 IP a g e





### SPECIFIC PROBLEM SCORESHEET

### **UNDERGROUND FIREFIGHTING SCENARIO**

# EVALUATOR REFERENCE INFORMATION Fresh Air Base and Briefing Officer

Day 2	<u>Flesh F</u>	All Dase and Di	ening Officer	
теам #2	China	Pine mai	Senna	Cronp
		J		U
COUNTRY	China			

The Briefing officer will receive a description of the scenario and an assignment from the Control Group.

The Briefing Officer, after collecting information will develop a plan of action for his team to safely and fully complete the assignment he received from the Control Group. He will then brief the team and relay the assignment and his plan of action.

Assemble information by asking "Control representative" for critical pieces of information.

Status of Ventilation	(y/n)/
Status of Electrical Installations	(y/n) <u></u>
Status of Compressed Air / Water	(y/n)
Availability of Back-up Team	(y/n)/
Fire Fighting Equipment	(3) \( \frac{3}{3} \)
Copy of Prints / Maps	(3) 3!
History of Hazardous Gasses	$(0)$ $\phi$
Hazards to the team (ground conditions, open holes, etc.)	$(3) \cancel{\phi}$
Refuge Area / Plan for his Team	(3) <u>'3</u>
Communications	(3) 3

I Page

The Plan of action will include the following:	,
- Activate a Mine Rescue Team	(2)
<ul> <li>Have team prepare and wear SCBA from surface.</li> </ul>	(2) _ 2
- Have team take a fire hose and nozzle	(2) <u> </u>
- Have team take a Foam Fire Extinguisher	(2) $\lambda$
- Have team take Minimum Equipment, including:	_
-Gas Detector-	(2)
-Kestral Weather Meter	(0) 🕜
-Backup Breathing Apparatus for the team	/
(BG4)	(2) 2
-First Aid Kit for the team	(y/n) N
-Radio	(2) 2
-Basket stretcher	(2) Ø
-Captains notebook	(2) 3
-Thermal Imaging Camera	(2) 6
Team Preparation:	,
- Prepare minimum equipment	(5) N/A
- Prepare breathing apparatus	(6) N/A
- Assemble for briefing	(6) N/A
-Each team member is attentive during the briefing	(6) N/A
- Captain / Team is given the opportunity clarify their	
assignment	(5) N/A
- All equipment required to be taken is inspected	. ,
Thermal Imaging Camera	(1) N/A
<ul><li>Hose / Nozzle</li></ul>	(1) N/A
<ul> <li>AFFF extinguisher</li> </ul>	(1) <u>N/A</u>
- Basket	(1) N/A
<ul> <li>Gas monitor</li> </ul>	(1) <u>N/A</u>
Getting The Team Under Oxygen. Each Team Member Including the	Captain will
-Put on their Face Mask (1 e	ach) <u>NA</u>
-Tighten Straps (1 e	ach) N/A
-Turn On the Oxygen Cylinder. (1 e	ach) <u>N/A</u> ach) <u>N/A</u>
(=	/

The Captain will ensure that every team member, including the Captain, is inspected before entering contamination. Every team member will be checked:

- (2 each) *∧*/*A* To ensure that they are fit and OK to proceed (2 each) N/A Check the SCBA Mask for a good seal (2 each) N/A
- Check each members pressure

Before Entering the Mine, the Captain shall:

-Ensure that they have all Minimum Required Equipment, and all (5) N/Anecessary additional equipment, with them. Contact the briefing officer to establish a destination and time limit.

After Entering the Mine, the Mine Rescue Team Shall Evaluate Conditions.

Air Quality CO 02 Smoke Density

When Contamination is identified and the intent is to advance the team from an area of fresh air, into the contaminated atmosphere, the Captain must:

- Check the team in contaminated air

  Confirm that each team member is OK to proceed (1 ea) N/A
- Report to the Briefing Officer

Proceed down ramp

At Electrical Scenario:

Report to Briefing Officer before proceeding to shop

At Fire Scene:

Notify Briefing Officer fire is out.

Receive a time limit back to surface.

Contact Briefing Officer when on surface.

Receive order to take team "out of Oxygen" then Stand Down

Shut off oxygen cylinders	<b>(6)</b> <u>6</u>	
Remove breathing apparatus face masks	(6)_	6
Notes:		
TOTAL SCORE		
		-
EVALUATOR:		
Print Name: Justin Roy		
Signature:		4   P a g e





### SPECIFIC PROBLEM SCORESHEET

### UNDERGROUND FIREFIGHTING SCENARIO

# EVALUATOR REFERENCE INFORMATION Fresh Air Base and Briefing Officer

41	TEAM China	Pingmei	Senma	Group	
	COUNTRY Chin	.a			

The Briefing officer will receive a description of the scenario and an assignment from the Control Group.

The Briefing Officer, after collecting information will develop a plan of action for his team to safely and fully complete the assignment he received from the Control Group. He will then brief the team and relay the assignment and his plan of action.

Assemble information by asking "Control representative" for critical pieces of information.

Status of Ventilation	(y/n)
Status of Electrical Installations	(y/n)
Status of Compressed Air / Water	(y/n)
Availability of Back-up Team	(y/n)
Fire Fighting Equipment	(3)
Copy of Prints / Maps	(3)
History of Hazardous Gasses	(0)
Hazards to the team (ground conditions, open holes, etc.)	(3)
Refuge Area / Plan for his Team	(3)
Communications	(3)

The Plan of action will include the following:	
- Activate a Mine Rescue Team	(2)
- Have team prepare and wear SCBA from surface.	(2)
- Have team take a fire hose and nozzle	(2)
- Have team take a Foam Fire Extinguisher	(2)
- Have team take Minimum Equipment, including:	
-Gas Detector-	(2)
-Kestral Weather Meter	(0)
-Backup Breathing Apparatus for the team	
(BG4)	(2)
-First Aid Kit for the team	(y/n)
-Radio	(2)
-Basket stretcher	(2)
-Captains notebook	(2)
-Thermal Imaging Camera	(2)
-Thermal magnig Camera	(2)
Team Preparation:	
- Prepare minimum equipment	
- Prepare minimum equipment	(5) 5
- Prepare breathing apparatus	(6) 6
- Assemble for briefing	(6) 6
-Each team member is attentive during the briefing	(6) 6
`- Captain / Team is given the opportunity clarify their	fun to
assignment work rown	$(5) \underline{\nu}, \underline{\sigma}$
- All equipment required to be taken is inspected	1
Thermal Imaging Camera	(1)
- Hose/Nozzle-very the vouch	(1)
AFFF extinguisher Double decline	(1)
- Basket i Double Clacked	(1)
- Basket / Double Clacked  Gas monitor	(1)
Getting The Team Under Oxygen. Each Team Member Including the	Captain will:
	1
-Put on their Face Mask -Tighten Straps -Turn On the Oxygen Cylinder.  (1 each of the description of the des	nch)
Tighten Straps (1 ea	nch)
-Turn On the Oxygen Cylinder. (1 ea	nch)
(2 se	
	le
there has been to ch	2C 2 Page
toeryone had assigned tasks to che term in shetcher & stretcher with very impressive checked stretcher with	
Henr in Shetcher & Stretcher -	
- with	man an C
NEW IMPLESSIVE . CHECKER THE KINE!	27 (2)

	The Captain will ensure that every team member, including the Captain inspected before entering contamination. Every team member will be To ensure that they are fit and OK to proceed - Check the SCBA Mask for a good seal - Check each members pressure	
Verg	Before Entering the Mine, the Captain shall:  -Ensure that they have all Minimum Required Equipment necessary additional equipment, with them.  Contact the briefing officer to establish a destination limit.  (5)	and time
Ercelle Belope 1	When Contamination is identified and the intent is to advance the tear of fresh air, into the contaminated atmosphere, the Captain must:  - Check the team in contaminated air - Confirm that each team member is OK to proceed - Report to the Briefing Officer	$\frac{2}{2}$ In from an area $(5) \underline{5}$ $(1 ea) \underline{6}$ $(y/n) \underline{7}$
	Proceed down ramp	(5)
	At Electrical Scenario:  Report to Briefing Officer before proceeding to shop  At Fire Scene:	(5)
	Notify Briefing Officer fire is out.	(5)
	Receive a time limit back to surface.	(5)
	Contact Briefing Officer when on surface.	(5)
	Receive order to take team "out of Oxygen" then Stand Down	(5)

Shut off oxygen cylinders	(5)
Remove breathing apparatus face masks	(5)
Notes:	
TOTAL SCORE	
EVALUATOR:	
Print Name: Lee Morrison	
Signature: See Mourie	41Page

411



#### SPECIFIC PROBLEM SCORESHEET

### **UNDERGROUND FIREFIGHTING SCENARIO**

# EVALUATOR REFERENCE INFORMATION Fresh Air Base and Briefing Officer

TEAM _	CHINA	PING MEI	SENMA	GROUP
COUNTR	XY <i>C</i> / <sub>7</sub>	liNA		

The Briefing officer will receive a description of the scenario and an assignment from the Control Group.

The Briefing Officer, after collecting information will develop a plan of action for his team to safely and fully complete the assignment he received from the Control Group. He will then brief the team and relay the assignment and his plan of action.

Assemble information by asking "Control representative" for critical pieces of information.

Status of Ventilation	(y/n)
Status of Electrical Installations	(y/n)
Status of Compressed Air / Water	(y/n)
Availability of Back-up Team	(y/n)
Fire Fighting Equipment	(3)
Copy of Prints / Maps	(3)
History of Hazardous Gasses	(0)
Hazards to the team (ground conditions, open holes, etc.)	(3)
Refuge Area / Plan for his Team	(3)
Communications	(3)

The Plan of action will include the following:	
- Activate a Mine Rescue Team	(2)
<ul> <li>Have team prepare and wear SCBA from surface</li> </ul>	A 25 SASSING
- Have team take a fire hose and nozzle	(2)
- Have team take a Foam Fire Extinguisher	(2)
- Have team take Minimum Equipment, including:	
-Gas Detector-	(2)
-Kestral Weather Meter	(0)
-Backup Breathing Apparatus for the team	
(BG4)	(2)
-First Aid Kit for the team	(y/n)
-Radio	(2)
-Basket stretcher	(2)
-Captains notebook	(2)
-Thermal Imaging Camera	(2)
Team Preparation:	
Duanana minimum aquinment	(5)
- Prepare minimum equipment	(5)  - (5)
- Prepare breathing apparatus	(6) 6
- Assemble for briefing  Feel team member is attentive during the briefing	(6)
-Each team member is attentive during the briefing	(6) 6
- Captain / Team is given the opportunity clarify their	(5)
assignment	(5) _ <u> </u>
- All equipment required to be taken is inspected	(1) /
<ul><li>Thermal Imaging Camera</li><li>Hose / Nozzle</li></ul>	(1) $(1)$
<ul><li>Hose / Nozzie</li><li>AFFF extinguisher</li></ul>	(1) $(1)$
- Arrr extinguisher - Basket	(1) $(1)$
- Gas monitor	(1) $(1)$
- Gas monitor	(1)
Getting The Team Under Oxygen. Each Team Member Including the	Captain will:
-Put on their Face Mask (1 e	each)
-Tighten Straps (1 e	each)
-Turn On the Oxygen Cylinder. (1 e	each)6
All BOTTLE TRUBURD ON WARREN ON TRUBURD	
1 BOTTVE RUPLI	
All 12 What I'm in	2   Pag
1/ Will I Kap Or	*C 3/42
V. W.	

inspected before entering contamination. Every team member will be  To ensure that they are fit and OK to proceed  Check the SCBA Mask for a good seal  Check each members pressure	checked:
Before Entering the Mine, the Captain shall:  -Ensure that they have all Minimum Required Equipment necessary additional equipment, with them.  Contact the briefing officer to establish a destination limit.  (5)	5
After Entering the Mine, the Mine Rescue Team Shall Evaluate Cond - Air Quality CO (2) O2 (2) Smoke Density (2)_	itions.
When Contamination is identified and the intent is to advance the tear of fresh air, into the contaminated atmosphere, the Captain must:  - Check the team in contaminated air - Confirm that each team member is OK to proceed - Report to the Briefing Officer	(5) (1 ea) (y/n)
Proceed down ramp	(5)
At Electrical Scenario:	
Report to Briefing Officer before proceeding to shop	(5)
At Fire Scene:	
Notify Briefing Officer fire is out.	(5)
Receive a time limit back to surface.	(5)
Contact Briefing Officer when on surface.	(5)
Receive order to take team "out of Oxygen" then Stand Down	(5)

Shut off oxygen cylinders	(5)
Remove breathing apparatus face masks	(5)
Notes:	
TOTAL SCORE	
EVALUATOR:	
Print Name: ROBERT MARIA	
Signature:	
	4   Page

#192/



#### SPECIFIC PROBLEM SCORESHEET

#### UNDERGROUND FIREFIGHTING SCENARIO

EVALUATOR REFERENCE INFORMATION
Fresh Air Base and Briefing Officer

TEAM_C	una	Pingmei	Senma	Croup,
	01.	J		
COUNTRY	Chir	70		- 7

The Briefing officer will receive a description of the scenario and an assignment from the Control Group.

The Briefing Officer, after collecting information will develop a plan of action for his team to safely and fully complete the assignment he received from the Control Group. He will then brief the team and relay the assignment and his plan of action.

Assemble information by asking "Control representative" for critical pieces of information.

Status of Ventilation	(y/n)
Status of Electrical Installations	(y/n)
Status of Compressed Air / Water	(y/n)
Availability of Back-up Team	(y/n)
Fire Fighting Equipment	(3)
Copy of Prints / Maps	(3)
History of Hazardous Gasses	(0)
Hazards to the team (ground conditions, open holes, etc.)	(3)
Refuge Area / Plan for his Team	(3)
Communications	(3)

1 Page

The Plan of action will include the following:  - Activate a Mine Rescue Team - Have team prepare and wear SCBA from surface Have team take a fire hose and nozzle - Have team take a Foam Fire Extinguisher - Have team take Minimum Equipment, including: - Gas Detector Kestral Weather Meter - Backup Breathing Apparatus for the team (BG4) - First Aid Kit for the team - Radio - Basket stretcher	(2) (2) (2) (2) (0) (2) (y/n) (2) (2)
-Captains notebook	(2)
-Thermal Imaging Camera	(2)
Team Preparation:	
<ul> <li>Prepare minimum equipment</li> <li>Prepare breathing apparatus</li> <li>Assemble for briefing</li> <li>Each team member is attentive during the briefing</li> <li>Captain / Team is given the opportunity clarify their assignment</li> <li>All equipment required to be taken is inspected <ul> <li>Thermal Imaging Camera</li> <li>Hose / Nozzle</li> <li>AFFF extinguisher</li> <li>Basket</li> <li>Gas monitor</li> </ul> </li> </ul>	(5) 5 (6) 6 (6) 6 (7) 5 (1) 1 (1) 1 (1) 1 (1) 1 (1) 1
Getting The Team Under Oxygen. Each Team Member Including the	e Captain will:
-Tighten Straps (1 e	ach) 6 ach) 6 ach) 6

The Captain will ensure that every team member, including the Captai inspected before entering contamination. Every team member will be a contamination of the captain and the captain inspected before entering contamination. Every team member will be a contamination of the captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering contamination. Every team member will be a captain inspected before entering the captain inspe	checked: (2 each) 12
Before Entering the Mine, the Captain shall:  -Ensure that they have all Minimum Required Equipment necessary additional equipment, with them. (5) _  Contact the briefing officer to establish a destination limit. (5) _	
After Entering the Mine, the Mine Rescue Team Shall Evaluate Condi  - Air Quality CO (2)  - O2 (2)  - Smoke Density (2)	itions.
When Contamination is identified and the intent is to advance the team of fresh air, into the contaminated atmosphere, the Captain must:  - Check the team in contaminated air - Confirm that each team member is OK to proceed - Report to the Briefing Officer	
Proceed down ramp	(5)
At Electrical Scenario:	
Report to Briefing Officer before proceeding to shop	(5)
At Fire Scene:	
Notify Briefing Officer fire is out.	(5)
Receive a time limit back to surface.	(5)
Contact Briefing Officer when on surface.	(5)
Receive order to take team "out of Oxygen" then Stand Down	(5)

Shut off oxygen cylinders	(5)
Remove breathing apparatus face masks	(5)
Notes:	
TOTAL SCORE	
EVALUATOD.	
Print Name: George Good	
Print Name: George Good	
Signature:	
Signature.	4   Page

Master





# SPECIFIC PROBLEM SCORESHEET

# **UNDERGROUND FIREFIGHTING SCENARIO**

**EVALUATOR REFERENCE INFORMATION** Spill and Firefighting **COUNTRY** Locate and evaluate spill of Flammable Liquid. Apply foam to spill to contain vapours. Apply foam indirectly to spill so that no liquid is splashed from the spill containment area. (roll on from in front of spill or arc so that it falls lightly or bounce off of an object so that it runs onto the spill) (10)Do not disturb foam cover once it is applied. (10)Report to Briefing Officer before proceeding past. Locate and evaluate the Fire past the spill. Proceed past Spill Hazard Only After foam cover suitably applied. (10) -(The Team will identify "HEAT" after they pass the fuel spill. They must locate a

water header and protect themselves from the heat using a fire hose with fog spray

before advancing.

1|Page

Recognize heat as a hazard and notify Briefing Officer	(10) _/()	
Locate water header and test for flow.	(5)	
Hose #1		
Roll out fire hose without advancing into the Heat.	(3) 3	
Have no kinks in the fire hose	(3) 3	
Connect fire hose to water header.	(3) 3	
Install nozzle on fire hose.	(5) 5	
Turn on water to charge fire hose.	(5) 5	
Set fire nozzle to fog pattern before advancing into heat.	(10)	
The fire hose with fog will protect the team from the Heat so that they can proceed toward the fire, but this will only allow them to explore up to the fire as any attempt to switch to a fire fighting stream will expose them again to intense heat. A second hose will be required. One to protect the team with fog and one to fight the fire. If a team did not use the foam extinguisher at the spill they may still have it available for fire attack. Merits may be awarded for fire attack with a second fire hose or with foam extinguisher, NOT Both.		
Fog curtain not dropped until flames extinguished and heat reduced.	(10)	
2 <sup>nd</sup> Fire Hose used:		
Use a second hose and nozzle for fire attack	(10)	
Roll out fire hose without advancing into the Heat.	(10) $0$ $3$ $3$	

Have no kinks in the fire hose

Connect fire hose to water header.



(3) 3

Install nozzle on fire hose.	(5)	
Turn on water to charge fire hose.	(5)	
Set fire nozzle to stream pattern before advancing into heat.	(10)	
Check for function before advancing.	(5)	
Advance and fight fire from behind fog curtain.	(10)	
AFFF Extinguisher used: Use a foam extinguisher for fire attack	(10)	
Before advancing with the extinguisher to fight the fire, check the extinguisher for function and range by activating a short burst from the extinguisher. (20)		
Apply extinguishing agent until the fire is fully extinguished. (stir coastraight stream, scaling bar, etc.)	als with (10) _5	
Confirm that the fire is out (heat, smoke, glowing coals etc.)	(10) / ()	
Check extinguished fire with Thermal Imaging Camera	(5) 5	
Evaluate air quality:  - Air Quality  CO  O2  Smoke Density	$ \begin{array}{ccc} (2) & \cancel{2} \\ (2) & \cancel{2} \\ (2) & \cancel{2} \end{array} $	
Report to Briefing Officer before leaving shop	(5) 5	
Reassess fuel spill when passing.	(5)	
Reassess electrical box when passing.	(5)	
	31	

Notes:	
TOTAL SCORE	
TOTAL SCORE	
EVALUATOR:	
Print Name:	
Signatura	
Signature:	

9/



### SPECIFIC PROBLEM SCORESHEET

### **UNDERGROUND FIREFIGHTING SCENARIO**

# EVALUATOR REFERENCE INFORMATION Spill and Firefighting

TEAM China Pingmei Senna	Group
COUNTRY China	
Locate and evaluate spill of Flammable Liquid.	(5) 5
Apply foam to spill to contain vapours.	(10)
Apply foam indirectly to spill so that no liquid is splashed from containment area. (roll on from in front of spill or arc so that it to bounce off of an object so that it runs onto the spill)	-
Do not disturb foam cover once it is applied.	(10)
Report to Briefing Officer before proceeding past.	(5)
Locate and evaluate the Fire past the spill.	(10) 10
Proceed past Spill Hazard Only After foam cover suitably applied	ed. (10)
The Team will identify "HEAT" after they pass the fuel spill. They must locate a water header and protect themselves from the heat using a fire hose with fog spray before advancing.	

1 | Page

Recognize heat as a hazard and notify Briefing Officer	$(10) \underline{\hspace{1cm}}$	
Locate water header and test for flow.	(5)	
Hose #1		
Roll out fire hose without advancing into the Heat.	(3) 3	
Have no kinks in the fire hose	(3)	
Connect fire hose to water header.	(3)	
Install nozzle on fire hose.	(5)	
Turn on water to charge fire hose.	(5) 5	
Set fire nozzle to fog pattern before advancing into heat.	(10)	
The fire hose with fog will protect the team from the Heat so that they can proceed toward the fire, but this will only allow them to explore up to the fire as any attempt to switch to a fire fighting stream will expose them again to intense heat. A second hose will be required. One to protect the team with fog and one to fight the fire. If a team did not use the foam extinguisher at the spill they may still have it available for fire attack. Merits may be awarded for fire attack with a second fire hose or with foam extinguisher, NOT Both.		
Fog curtain not dropped until flames extinguished and heat reduced.	(10)	
2 <sup>nd</sup> Fire Hose used:		
Use a second hose and nozzle for fire attack	(10)	
Roll out fire hose without advancing into the Heat.	(3)	
Have no kinks in the fire hose	(3) 3	
Connect fire hose to water header.	(3)	
55	21Pag 4	

Install nozzle on fire hose.	(5)			
Turn on water to charge fire hose.	(5)			
Set fire nozzle to stream pattern before advancing into heat.	(10)			
Check for function before advancing.	(5)			
Advance and fight fire from behind fog curtain.	(10)			
AFFF Extinguisher used: Use a foam extinguisher for fire attack	(10)			
Before advancing with the extinguisher to fight the fire, check the ext function and range by activating a short burst from the extinguisher.	Before advancing with the extinguisher to fight the fire, check the extinguisher for function and range by activating a short burst from the extinguisher. (20)			
Apply extinguishing agent until the fire is fully extinguished. (stir constraight stream, scaling bar, etc.)	$(10)  \begin{array}{c} \\ \\ \\ \end{array} $			
Evaluate air quality:  - Air Quality  CO  O2  Smoke Density	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
Report to Briefing Officer before leaving shop	(5) <u>5</u> w			
Reassess fuel spill when passing.	(5)			
Reassess electrical box when passing.	(5)			

34

Notes:
- good team discipline - need to spread out more to sind header
TOTAL SCORE SLE
EVALUATOR: M: Ke Duda/ Print Name: Daves Bullier
Signature:



8.24

92/

8.



## SPECIFIC PROBLEM SCORESHEET

### **UNDERGROUND FIREFIGHTING SCENARIO**

# EVALUATOR REFERENCE INFORMATION Spill and Firefighting

TEAM China Pingmei Senna Gro	cup.
COUNTRY China.	54
Locate and evaluate spill of Flammable Liquid.	(5)
Apply foam to spill to contain vapours.	(10)
Apply foam indirectly to spill so that no liquid is splashed from containment area. (roll on from in front of spill or arc so that it	t falls lightly or
bounce off of an object so that it runs onto the spill)	(10)
Do not disturb foam cover once it is applied.	(10)
Report to Briefing Officer before proceeding past.	(5) 5
Locate and evaluate the Fire past the spill.	(10)
Proceed past Spill Hazard Only After foam cover suitably app	lied. (10)
The Team will identify "HEAT" after they pass the fuel spill. water header and protect themselves from the heat using a fire before advancing.	<del>-</del>
tean did not idnify location of flyd (w/h) in bur uis. Increased we of till on way in	n my hourspage
31- advise town location of MIH as p	and released other (20)

Recognize heat as a hazard and notify Briefing Officer	(10) 10	
Locate water header and test for flow.  Did rol iduly location of WH.  Judge interpretary to show location after  Hose #1	(5)	
Roll out fire hose without advancing into the Heat.	(3)	
Have no kinks in the fire hose	(3) 3	
Connect fire hose to water header.	(3) 3	
Install nozzle on fire hose.	(5) _5	
Turn on water to charge fire hose.	(5) 5	
Set fire nozzle to fog pattern before advancing into heat.	(10)	
The fire hose with fog will protect the team from the Heat so that they can proceed toward the fire, but this will only allow them to explore up to the fire as any attempt to switch to a fire fighting stream will expose them again to intense heat. A second hose will be required. One to protect the team with fog and one to fight the fire. If a team did not use the foam extinguisher at the spill they may still have it available for fire attack. Merits may be awarded for fire attack with a second fire hose or with foam extinguisher, NOT Both.		
Fog curtain not dropped until flames extinguished and heat reduced.	(10)	
2nd Fire Hose used: 2nd hose initially on and as	could mol	
Use a second hose and nozzle for fire attack	(10)	
Roll out fire hose without advancing into the Heat.	(3)	
Have no kinks in the fire hose	(3) 3	
Connect fire hose to water header.	(3)	
Sproyed water Jed from distance without log to allack fire. Controlled water to brach from Wilkeder - didi	2/Page	

Install nozzle on fire hose.	(5)
Turn on water to charge fire hose.	(5)
Set fire nozzle to stream pattern before advancing into heat.	(10)
Check for function before advancing.	(5)
Advance and fight fire from behind fog curtain.	(10)
AFFF Extinguisher used: Use a foam extinguisher for fire attack	(10)
Before advancing with the extinguisher to fight the fire, check the extinunction and range by activating a short burst from the extinguisher.	nguisher for (20)
Apply extinguishing agent until the fire is fully extinguished. (stir coastraight stream, scaling bar, etc.)	(10) 5
Confirm that the fire is out (heat, smoke, glowing coals etc.)  Need to be more though with confirming Check extinguished fire with Thermal Imaging Camera	(10) <u>10</u> (5) <u>5</u>
Evaluate air quality:  - Air Quality  CO  Smoke Density	(2) <del>2</del> (2) <del>2</del> (2) <del>2</del>
Report to Briefing Officer before leaving shop	(5) 5
Reassess fuel spill when passing.	(5)
Reassess electrical box when passing.	(5)
	31

3 | Page

Notes:		
EBuent tean work Tom	moded say resularly.	
Could use TIC more or may have identified W	14 coller.	
D		
<u> </u>		
Judge redirected team on	way and as teem had	_
and - Ieli		
TOTAL SCORE	86 31	
EVALUATOR:		
Print Name: S Dondo		
Signature:		





### SPECIFIC PROBLEM SCORESHEET

### **UNDERGROUND FIREFIGHTING SCENARIO**

# EVALUATOR REFERENCE INFORMATION Spill and Firefighting

TEAM CHINA PINGMEI SEMMA GROUP	
COUNTRY CHINA	
Locate and evaluate spill of Flammable Liquid.	(5)
Apply foam to spill to contain vapours.	(10)
Apply foam indirectly to spill so that no liquid is splashed from containment area. (roll on from in front of spill or arc so that it bounce off of an object so that it runs onto the spill)	
Do not disturb foam cover once it is applied.	(10)
Report to Briefing Officer before proceeding past.	(5) 5
Locate and evaluate the Fire past the spill.	(10) _/O
Proceed past Spill Hazard Only After foam cover suitably applie	ed. (10) O
The Team will identify "HEAT" after they pass the fuel spill. The water header and protect themselves from the heat using a fire heafore advancing.	

Recognize heat as a hazard and notify Briefing Officer	(10) / 0
Locate water header and test for flow.	(5)
Hose #1	
Roll out fire hose without advancing into the Heat.	(3) _3
Have no kinks in the fire hose	(3) 3
Connect fire hose to water header.	(3) _3
Install nozzle on fire hose.	(5) _5
Turn on water to charge fire hose.	(5) 5
Set fire nozzle to fog pattern before advancing into heat.	(10)
The fire hose with fog will protect the team from the Heat so that the toward the fire, but this will only allow them to explore up to the fire to switch to a fire fighting stream will expose them again to intense h hose will be required. One to protect the team with fog and one to fig team did not use the foam extinguisher at the spill they may still have for fire attack. Merits may be awarded for fire attack with a second fi foam extinguisher, NOT Both.	as any attempt leat. A second ght the fire. If a e it available
Fog curtain not dropped until flames extinguished and heat reduced.	(10)
2 <sup>nd</sup> Fire Hose used:	
Use a second hose and nozzle for fire attack	(10)
Roll out fire hose without advancing into the Heat.	(3) _3
Have no kinks in the fire hose	(3) _ 3 =
Connect fire hose to water header.	(3)
	35 2 Page

Install nozzle on fire hose.	(5)
Turn on water to charge fire hose.	(5) 0
Set fire nozzle to stream pattern before advancing into heat.	(10)
Check for function before advancing.	(5) 0
Advance and fight fire from behind fog curtain.	(10)
AFFF Extinguisher used: Use a foam extinguisher for fire attack	(10) 💍
Before advancing with the extinguisher to fight the fire, check the extinuction and range by activating a short burst from the extinguisher.	inguisher for (20)
Apply extinguishing agent until the fire is fully extinguished. (stir coastraight stream, scaling bar, etc.) $D_1D$ $NOT$ $STIRFIRE$ $COALS$	als with (10)
Confirm that the fire is out (heat, smoke, glowing coals etc.)	(10) / 0
Check extinguished fire with Thermal Imaging Camera	(5) 5
Evaluate air quality:  - Air Quality  CO  By SHEELS  O2  Smoke Density	(2) <u>1</u> (2) <u>1</u> (2) <u>1</u>
Report to Briefing Officer before leaving shop	(5) 5
Reassess fuel spill when passing.	(5) 0
Reassess electrical how when passing	(5)

31

Notes: - HAD TO BE TOLD WHERE HE	HATER WIAS	DUE
TO INFFFECTIVE USE OF TI		
- TRAM VERY FAST, RUSH THRONGH	PROBLEM, JEX	<u>Cms</u>
LIKE TIME IS VERY IMPORTANT		
- FXCELIENT COMMUNICATION, W	CHED WE LL T	KETI FER
TOTAL COORT	0. /	
TOTAL SCORE	06	
EVALUATOR:		
Print Name: KIBBY BUCH AN AN		
Signature: Kly Blee		





### SPECIFIC PROBLEM SCORESHEET

### **UNDERGROUND FIREFIGHTING SCENARIO**

# EVALUATOR REFERENCE INFORMATION Spill and Firefighting

TEAM China Pingmei Senma Grow	P
COUNTRY China	<u> </u>
Locate and evaluate spill of Flammable Liquid.	(5) 5
Apply foam to spill to contain vapours.	(10)
Apply foam indirectly to spill so that no liquid is splashed from containment area. (roll on from in front of spill or arc so that it bounce off of an object so that it runs onto the spill)	
Do not disturb foam cover once it is applied.	(10)
Report to Briefing Officer before proceeding past.	(5) <u>\$5</u>
Locate and evaluate the Fire past the spill.	(10)
Proceed past Spill Hazard Only After foam cover suitably applied	ed. (10)
The Team will identify "HEAT" after they pass the fuel spill. The water header and protect themselves from the heat using a fire habefore advancing.	
	(20)

Recognize heat as a hazard and notify Briefing Officer	(10) 10
Locate water header and test for flow.  team directle to header to maintain  Hose #1 Megrity of produce of people entoring  Learn as housentent.	(5) _
Roll out fire hose without advancing into the Heat.	(3)
Have no kinks in the fire hose	(3)
Connect fire hose to water header.	(3) _3
Install nozzle on fire hose.	(5) 3
Turn on water to charge fire hose.	(5) 5
Set fire nozzle to fog pattern before advancing into heat.	(10)
The fire hose with fog will protect the team from the Heat so that they toward the fire, but this will only allow them to explore up to the fire to switch to a fire fighting stream will expose them again to intense he hose will be required. One to protect the team with fog and one to fighteam did not use the foam extinguisher at the spill they may still have for fire attack. Merits may be awarded for fire attack with a second fire foam extinguisher, NOT Both.	as any attempt eat. A second ht the fire. If a it available
Fog curtain not dropped until flames extinguished and heat reduced.	(10)
2 <sup>nd</sup> Fire Hose used:	
Use a second hose and nozzle for fire attack	(10)
Roll out fire hose without advancing into the Heat.	(3)
Have no kinks in the fire hose	(3)
Connect fire hose to water header.	(3)
	2   P a g e

Install nozzle on fire hose.	(5)
Turn on water to charge fire hose.	(5)
Set fire nozzle to stream pattern before advancing into heat.	(10)
Check for function before advancing.	(5)
Advance and fight fire from behind fog curtain.	(10)
AFFF Extinguisher used: Use a foam extinguisher for fire attack	(10)
Before advancing with the extinguisher to fight the fire, check the extinunction and range by activating a short burst from the extinguisher.	nguisher for (20)
Apply extinguishing agent until the fire is fully extinguished. (stir coastraight stream, scaling bar, etc.)	als with (10) _ <b></b>
Confirm that the fire is out (heat, smoke, glowing coals etc.)	(10) 10
Check extinguished fire with Thermal Imaging Camera	(5) _ 5
Evaluate air quality:  - Air Quality  CO  CO  Smoke Density	(2) <del>Z</del> (2) <del>Z</del> (2) <del>Z</del>
Report to Briefing Officer before leaving shop	(5) 5
Reassess fuel spill when passing.	(5)
Reassess electrical box when passing.	(5)
	(31)

3 | Page

Notes:
- Well co-ordinated movements.
- Very quick to respond to orders.
- Crose movements throughout
- Need to work on the Rightburg techniques.
TOTAL SCORE
EVALUATOR:
Print Name: Andrew Jurgensen
Print Name: Mndrew Jurgensen
Cionatana
Signature:

Day 2	Team#2 (	thina	Pingmei	Sanma	Croup
-------	----------	-------	---------	-------	-------

D	ay 2 Team#2 China lingmei Senma Group China
7:36	Interpretor explains plan to BO
7154	Kendy to Brolt
7:55	Breifing begins
8,01	Breiting done
8:03	Team is ready to go to portal
8:06	Arrive at portal - getting ready to go under Oz Tean enters the portal - Team under Oz at 8:12
6:15	Tean enters the portal - Jean under Oa at 5:12
8:19	Team is at electrical Panel
8.30	Teamhas Shut off power
4:33	Team is at the spill
\$:35	Team has hit the first high temp sign BO calls uptain to get ready for their team check (2.
8:34	Team has located the fire
0.31	BO notifies teum to advance on some soit of
	Shalter or protection
	Class Afire Identified
9:39	Teur reported that the fire is out
	BO tells toom to inspect for other fire
	Team if going to inspect main decline
6:46	Tour is an surface - Did not report
8:47	Tean is out of Or
-	

#### Literang officers report

08:00	2016. 8.24	Ontario Mine Ruscise Hoot Exposure Standard  10 10 10 10 10 10 10 10 10 10 10 10 10 1
12.	φδίως ,	**
数法	1954H6	No.   No.
为龙潜		74 16 Dry Build Temperature
Bion #10 /	20. 20.9 .	08215 1-16 A 2 13 14
8127 159L		<b>经</b> 方 日底 <b>计</b> 反行义单型

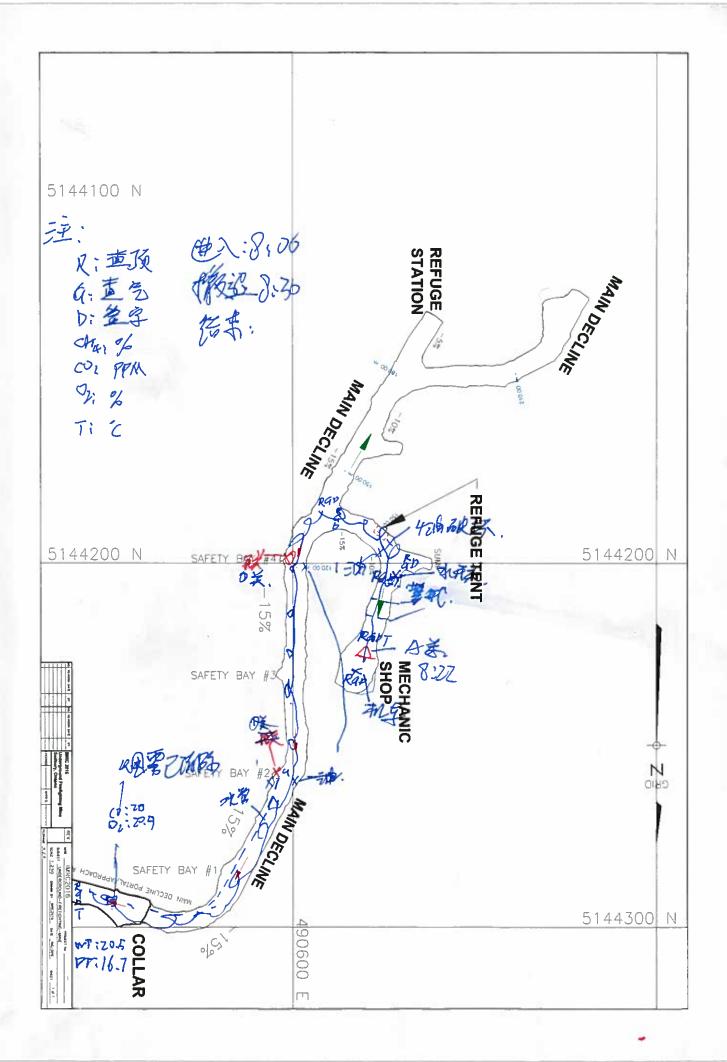
3

# 救援队行动方案及安全运动。

- D.在保证自胺主的扩张下,改名发案的原产重的老道,寻找、拉制、消除危险后、
- 9.维持风机(海风未免)正常运行,何止井下除风机,水泵外一切非本质安全里电历
- 9. 灭处战性·要在保证的发生的为捉下,推判烟寒处热蔓迟,我被措施防止用火风压造成风流发转、防止火灾事效扩大、防止引起, 石斯, 湖坐或机产爆炸、防止二及伤害生成, 创造有到的灭灾和外, 超风井口没置望我, Som在同野欢知时,

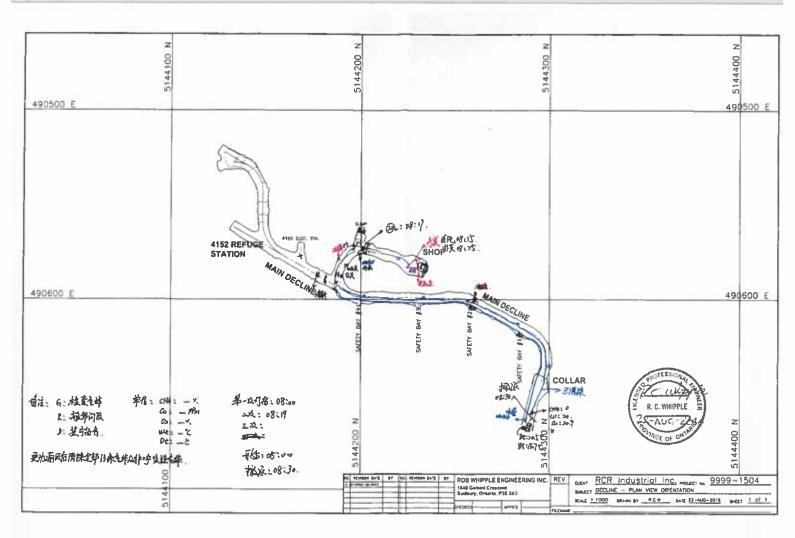
的. 马特提思《游戏到歌歌》《33山南沙秋路》将作. 园主第一. 严肃指代证等处

中国平城科马.



#### Captain' sreport

Standar	d Equipment (M78)	(4月	Captain		1	R Office			Au	xillery E	quipment.	(組動设备)			
MX6 (气体推動)	Whistles (日明)	1	Captain K			A RM			Fire fighting equipment(清助设备)						
SSR 90 (man) First Aid Kit(BAR)			Mine A -72			Date			Tools(IR)			resoue rope (KM)			
	) Chalk/paint(t		TE A 763			BM 2016.8.24			Communications (B)		Special Equipment (特种資金)				
Ked (MIRES Kestrel (MIRES)					Locati		AL PROPERTY.	Stretcher(#58)							
	Clipboard (開股	Clipboard (開始順)		队伍编号中国			T.	Care	vent (血性)	甲醛机)	scissor	expander	(身切扩展性		
		BG,	Field		Under					Pressure					
		NO.	Press	Test	Oxygen	Time	lime	Time	Time	Time	Time	Time	Time		
	Name	110	-		8:00	800	8319	-	200	1000					
Captain	-4	118	196	V	146	195	175			( 1)					
No. 2	VE.		199	190	199	196	176		calegre, and	2.50 0.00			1000		
No. 3		III	196	1	196	194	175					5-57/00/			
No. 4		120	196	V	196	189	166		7.0	100					
V/Capt	# 1	115	192	V	1920	189	166	300	1	-		1000000			
No. 6	77	117	192	V	1920	191	$\Pi$			-					
No. 7	- 30	1			J. A.	3.3-11									
Time	Location	Seek	CO	02	CH1	Doors	Fans	Flow	Time Limit	Destination/Report			Destination/Report		
									8:15	14毫观	476.	AL			
					1				8:25	#FKBD					
			4		11077556			100		No.	,		-		
	0.00														
		-							-						
		-			-			-				_			
											100	0			
									100			-			
		1		1915-101											





# APPENDIX C - FIRST AID SCENARIO





# INTERNATIONAL MINE RESCUE COMPETITION 2016

#### **FIRST AID COMPETITION**

MASTER

TEAM: CHINA PINGMEI SENMAGROUP #23 AUG 25/16 @ 1/30

<u>Casualty -#1</u>: A female patient is trying to extinguish the fire. The mine rescue team finds her standing by the burning storage box located in front of the drill. The patient is confused and will not obey commands. She refuses to put a fire extinguisher down and is shouting that she cannot hear. Blood is draining from her right ear and her left hand is burned.</u>

**Merits Points** 

#### **SCENE SURVEY**

1. <u>Assess Hazards</u> If the team extinguishes storage box fire they will have demonstrated assessing and correlazards.	0 1 2/3 ecting
Judge's Comments:	
2. Use examination gloves	
Examination gloves must be used before contact with patient occurs	0 123
Gloves must be removed and disposed of properly	0 123
Judge's Comments: - #2 did not change glovies b/t patients	

Page 1 Merits Sub Total

3. The team members must identify themselves and ask the patient if she wants help.	0 1 2 3
Judge's Comments:	
Assess Breathing	
1. The team must assess the airway.	0 1 2/3
To assess the airway the team should talk to the patient. The patient will be able to spea indicating there is a good airway.	k clearly
Judge's Comments:	
Assess Circulation	•
1. The team must assess circulation	
To assess circulation teams must check;	
Pulse	<u>0</u> 123
Skin Condition	0123
Skin Temperature	0123
Judge's Comments:	
Page 2 Merits Subtota	6

Rapid Body Survey	
Teams must check;	
1. The head and neck	0 123
Judge's Comments: - Very light touch; poorly asse	essed
2. The chest	<u>(1)</u> 23
Judge's Comments:  - not assessed	
3. The abdomen	0 2 3
Judge's Comments: Not assessed	
4. The pelvis and buttocks	0.162
Judge's Comments:  - Vary light touch; prorty asset	0 1(2)3 essed
5. The legs	0 123
Judge's Comments: -Very light touch, poorly as	sessed

-not asked

**Judge's Comments:** 

5. Last Oral Intake What and when did the patient last eat?	0123
Judge's Comments:	
6. Events leading to the Injury/Illness What were the events that led to the incident?	0 1 23
Judge's Comments:	
7. To treat for shock teams must;	
Reassure patient	0 1 23
Keep patient warm	<u> </u>
Keep patient at rest	0123
Judge's Comments: - no blanket provided	
Treatment of Injuries	
1. Apply Dressing to Right Ear Teams must apply dressing lightly. Blood must be able to drain.	0123
Judge's Comments: - did not leave bottom of dressi	<u> 19</u>
non for drainage	<u> </u>
	0
Page 5 Merits Subto	tal \(\forall \)

Page 6 Merits Subtotal \_\_\_\_\_

2. Apply burn dressing to left hand	0 1 2(3)
Teams must not remove anything stuck to the burn. Teams must use water gel sterile bur dressings.	n C
Judge's Comments: -excellent treatment of him	
	<del> </del>
3. Apply bandage to left hand Sterile bandage must be applied lightly to hold dressing in place	0 1 2(3)
Judge's Comments:	
4. Position patient to allow blood to drain from ear	0 1 2 3
Judge's Comments: - head not tilted to right side	0 h
in jury dear	
5. Reassure until emergency services arrive	0 1 2 🕱
Judge's Comments:	
y	
6. Monitor until emergency services arrive	<u>(1)</u> 1 2 3
Judge's Comments: -NO 1/1 tals taken	

7. Fill out casualty care report with the following information	
Date	<u>િ</u> ી 2 3
Time	0 1 2 3
Team number (identity)	① 23
Location	0 23
Patient's Name	0128
Vital Signs	0123
Treatment	0 1 2(3)
Injury Location on Body Outline	0 1 2(3)
Judge's Comments: - date, time, teamth loration & vi-	tal signs
not documented	<b></b>
8. Rough Handling Deductions Min	us 1 2 3 4 5
Judge's Comments:	
Page 7 Merits Subto	tal 9
Page 7 Patient #1 Total Merits less Total Demerits Total Scor	re 50
Judge's Signature: Allow James Lus Je Ll	hur

#### INTERNATIONAL MINE RESCUE COMPETITION 2016

## **FIRST AID COMPETITION**

TEAM: Change China Kingmei	
<u>Casualty - #1</u> : A female patient is trying to extinguish the fire. The mine rescribinds her standing by the burning storage box located in front of the drill. The proof confused and will not obey commands. She refuses to put a fire extinguisher down shouting that she cannot hear. Blood is draining from her right ear and her left burned.	atient is and is
Merits	Points
SCENE SURVEY	
1. <u>Assess Hazards</u> If the team extinguishes storage box fire they will have demonstrated assessing and correct hazards.	0 1 2(3) eting
Judge's Comments:	
2. Use examination gloves	
Examination gloves must be used before contact with patient occurs	0 1 2 3
Gloves must be removed and disposed of properly	0123
Judge's Comments:	
Page 1 Merits Sub Total	7

3. The team members must identify themselves and ask the patient if she wants help.	0123
Judge's Comments:	
Assess Breathing	
1. The team must assess the airway.	0 1 2 3
To assess the airway the team should talk to the patient. The patient will be able to speaindicating there is a good airway.	ak clearly
Judge's Comments:	
Assess Circulation	
1. The team must assess circulation	
To assess circulation teams must check;	
Pulse	0123
Skin Condition	<b>1</b> 2 3
Skin Temperature	0123
Judge's Comments:	
Page 2 Merits Subtota	al_6_

Rapid Body Survey	£5.
Teams must check;	
1. The head and neck	0123
Judge's Comments:	
2. The chest	0123
Judge's Comments:	
3. The abdomen	01 2 3
Judge's Comments:	
4. The pelvis and buttocks	0 1(2)3
Judge's Comments:	01(2)
5. The legs	0 1 2 3
Judge's Comments:	

	rage 4
6. The shoulders and arms.	0 1 2 3
Judge's Comments:	
Secondary Assessment The team must obtain a complete history of the patient by using SAMPLE.	
1. Signs and Symptoms What the patient can tell you. What the first aider can see.	0 1 2(3)
Judge's Comments:	
2. Allergies Is the patient allergic to any medications or anything else?	(O 1 2 3
Judge's Comments:	
3. Medication Is the patient taking any medications?	0123
Judge's Comments:	
4. Pertinent Medical History  Does the patient have any medical history the teams should know about?	0123
Judge's Comments:	

	1 ugc 5
5. Last Oral Intake	<b>(</b> ) 1 2 3
What and when did the patient last eat?	
Judge's Comments:	
6. Events leading to the Injury/Illness What were the events that led to the incident?	01 23
Judge's Comments:	
7. To treat for shock teams must;	
Reassure patient	0 1 2(3)
•	
Keep patient warm	<b>(</b> )1 2 3
Keep patient at rest	0123
Judge's Comments:	
Treatment of Injuries	
1. Apply Dressing to Right Ear Teams must apply dressing lightly. Blood must be able to drain.	0 1(2)3
Judge's Comments:	

Page 5 Merits Subtotal \_\_\_\_\_

2. Apply burn dressing to left hand	0 1 2(3)	
Teams must not remove anything stuck to the burn. Teams must use water gel sterile burn		
dressings.		
Judge's Comments:		
3. Apply bandage to left hand		
Sterile bandage must be applied lightly to hold dressing in place	0 1 2 3	
Judge's Comments:		
4. Position patient to allow blood to drain from ear	0123	
Judge's Comments:		
	200 E	
5. Reassure until emergency services arrive	0 1 2 3	
Indexale Comments		
Judge's Comments:		
	@l. o.o	
6. Monitor until emergency services arrive	<u></u> 01 2 3	
Judge's Comments:		

*1		

#### INTERNATIONAL MINE RESCUE COMPETITION 2016

### **FIRST AID COMPETITION**

TEAM: Chin Pingmei Senne 650-p #123	
<u>Casualty - #1</u> : A female patient is trying to extinguish the fire. The mine rescribed finds her standing by the burning storage box located in front of the drill. The proof confused and will not obey commands. She refuses to put a fire extinguisher down shouting that she cannot hear. Blood is draining from her right ear and her left burned.	atient is
Merits	Points
SCENE SURVEY	
1. <u>Assess Hazards</u> If the team extinguishes storage box fire they will have demonstrated assessing and correct hazards.	0 1 2/3) eting
Judge's Comments:	
2. Use examination gloves #6, #2	
Examination gloves must be used before contact with patient occurs	0 1
Gloves must be removed and disposed of properly	0 1/2)3
Judge's Comments: 42 Did not change glass when	
returning to assist	<del></del>
·	
Page 1 Merits Sub Total	I

3. The team members must identify themselves and ask the patient if she wants help. 0 1	285
Judge's Comments:  Tean I.D. + adv. 3-1 here to help  1 08/41 if could tx	2_
	_
Assess Breathing	
1. The team must assess the airway.	28
To assess the airway the team should talk to the patient. The patient will be able to speak clear indicating there is a good airway.	ly
Judge's Comments:  5 parke to pt. of assured along	
breathing	
Assess Circulation	
1. The team must assess circulation	
To assess circulation teams must check;	
Pulse O1	2 3
Skin Condition /0)1	2 3
Skin Temperature	2 3
Judge's Comments:	
	_
Page 2 Merits Subtotal	•

Rapid Body Survey	
Teams must check;	
1. The head and neck	0 123
Judge's Comments:	
2. The chest	<del>0</del> 1 2 3
Judge's Comments:	
3. The abdomen	(0 ½ 2 3
Judge's Comments:	**
4. The pelvis and buttocks	012
Judge's Comments:	
5. The legs	0 🖒 3
Judge's Comments:	
5-00-0-10000000	

Page 4

5. Last Oral Intake What and when did the patient last eat?	6)1 2 3
Judge's Comments:	
6. Events leading to the Injury/Illness What were the events that led to the incident?	Ø 1 23
Judge's Comments:  Not uSIFE	
7. To treat for shock teams must;	
Reassure patient Pt. 120550110	0 1 23
Keep patient warm	6/1 23
Keep patient at rest PA. placed coffing	012
Judge's Comments:	
Treatment of Injuries	
1. Apply Dressing to Right Ear Teams must apply dressing lightly. Blood must be able to drain.	0 1 2 3
Judge's Comments:	place
Judge's Comments:  1065100 poor part secured in	
Page 5 Merits Suh	statal &

0 1 213

Page 6 Merits Subtotal \_

Teams must not remove anything stuck to the burn. Teams must use water gel sterile bur dressings.	n
Judge's Comments:  - applied nator get to to humans  hand Fingers Separated to pravious \$1	1-1207
3. Apply bandage to left hand Sterile bandage must be applied lightly to hold dressing in place	01289
Judge's Comments: Absorbent per & Row gauge us.  Absorbent per & Row gauge us.  Lecure water sel dassing (, ca)	
4. Position patient to allow blood to drain from ear	Ø1 2 3
Judge's Comments:	
5. Reassure until emergency services arrive	0 1 2 3
Judge's Comments:	
6. Monitor until emergency services arrive	<u>(61)</u> 2 3
Judge's Comments:	

2. Apply burn dressing to left hand

7. Fill out casualty care report with the following information	
Date	<b>1</b> 2 3
Time	8123
Team number (identity)	①1 2 3
Location	(0)1 2 3
Patient's Name	0 1 2/3
Vital Signs	0 1 2 3
Treatment	0128
Injury Location on Body Outline	0 1 2/3
Judge's Comments:	
8. Rough Handling Deductions	Minus 1 2 3 4 5
Judge's Comments:	
	Page 7 Merits Subtotal
Page 7 Patient #1 Total Merits less Total Deme	rits Total Score
Judge's Signature:	<u> </u>

(41)

	**	

# INTERNATIONAL MINE RESCUE COMPETITION 2016 トロロロ

## **FIRST AID COMPETITION**

ILAM: CIMENA (CIMENA PENEUEE) SERVE
<u>Casualty -#1</u> : A female patient is trying to extinguish the fire. The mine rescue team finds her standing by the burning storage box located in front of the drill. The patient is confused and will not obey commands. She refuses to put a fire extinguisher down and is shouting that she cannot hear. Blood is draining from her right ear and her left hand is burned.
Merits Points
SCENE SURVEY
1. <u>Assess Hazards</u> If the team extinguishes storage box fire they will have demonstrated assessing and correcting hazards.
Judge's Comments:
2. Use examination gloves
Examination gloves must be used before contact with patient occurs  0 123
Gloves must be removed and disposed of properly  0 123
Judge's Comments:

3. The team members must identify themselves and ask the patient if she wants help.	0 1 23
Judge's Comments:	
Assess Breathing	<del></del>
1. The team must assess the airway.	0 1 2 🕙
To assess the airway the team should talk to the patient. The patient will be able to speaindicating there is a good airway.	ak clearly
Judge's Comments:	
Assess Circulation	<u> </u>
1. The team must assess circulation	
To assess circulation teams must check;	
Pulse	0123
Skin Condition	0123
Skin Temperature	0123
Judge's Comments:	
MONT TAKEN	
	مد
Page 2 Merits Subtota	

Page 2 Merits Subtotal \_\_\_\_

Rapid Body Survey	
Teams must check;	
1. The head and neck	0 1@3
Judge's Comments:	
2. The chest	(Î) 2 3
Judge's Comments:	
3. The abdomen	①I 2 3
Judge's Comments:	
4. The pelvis and buttocks  Judge's Comments:	0 123
UERY CEENT	
5. The legs	0 123
Judge's Comments:	
	200 2

	Page 5
5. Last Oral Intake What and when did the patient last eat?	<b>(</b> 01 2 3
Judge's Comments:	
6. Events leading to the Injury/Illness What were the events that led to the incident?	<b>1</b> 23
Judge's Comments:	
7. To treat for shock teams must;	
Reassure patient	0123
Keep patient warm	①1 2 3
Keep patient at rest	0 1 23
Judge's Comments:	
Treatment of Injuries	
1. Apply Dressing to Right Ear Teams must apply dressing lightly. Blood must be able to drain.	0 1233
Judge's Comments:	

Page 5 Merits Subtotal 9

2. Apply burn dressing to left hand  The standard standar							
Teams must not remove anything stuck to the burn. Teams must use water gel sterile burn dressings.							
Judge's Comments:							
GREAT SOB 1. BUT VATE							
3. Apply bandage to left hand Sterile bandage must be applied lightly to hold dressing in place	0 1 23						
Judge's Comments:							
	<						
4. Position patient to allow blood to drain from ear	<b>O</b> 1 2 3						
Judge's Comments:	-						
	<del></del>						
5. Reassure until emergency services arrive	0123						
Judge's Comments:  #6 570 w w to 17/2 /- C-?	<del>- · · · · · · · · · · · · · · · · · · ·</del>						
6. Monitor until emergency services arrive	<u>O</u> 1 2 3						
Judge's Comments:							

Judge's Signature:

			,	
	55t			





Page 1 Merits Subtotal

#### **FIRST AID COMPETITION**

TEAM: #23 - China - China Pingmei Senma Loup

<u>Casualty - #2</u> A male was working at height when the explosion occurred. The mine rescue team finds him suspended by his fall arrest system. He has abdominal injuries and is suffering from suspension trauma. He is conscious but confused. He says his legs hurt and he is dizzy. He is pale in color and perspiring heavily. The patient becomes non-verbal after he is lowered to safety and loses consciousness 3 minutes later. When the patient has been transported to the evacuation area he will suffer cardiac arrest. CPR with AED will be required.

Merits Points

SCENE SURVEY

1. Assess Hazards
If the team picks up ladder and tools in work area they will have demonstrated assessing and correcting hazards

Judge's Comments: Team Juried of the drull, DID NOT MODE LANDER OR TOOLS

2. Use examination gloves

Examination gloves must be used before contact with patient occurs

O12D

Gloves must be removed and disposed of properly

Judge's Comments: Team Members were all gloved

Jean Members of Patient #3 and #2 with same gloves

# Time Patient 13 ON growner 20:36

Page 2

3. Rescue 5+ The team must have the patient on the ground within 2 minutes of the patient calling for help. The team will be able to stand on the drill to assist patient down. The patient will not speak as soon as he is on the ground. Judge's Comments: Jean Did 188 How the Patient 0123 4. Identify Themselves as Emergency Responders The team members should identify themselves and ask the patient if he wants help. **Judge's Comments:** 1. Assess Breathing The LOC of Patient #2 changes 3 minutes after he is lowered to the ground. Patient's LOC changes from non-responsive to unconscious To assess breathing teams must: Look for the rise and fall of the chest Feel for air movement Listen for air movement **Judge's Comments:** seam did not lad for rise + fall or

Page 2 Merits Subtotal \_\_\_\_\_

Assess Circulation	
1. The team must assess circulation	
Pulse	<b>Q</b> 1 2 3
Skin Condition	<b>1</b> 2 3
Skin Temperature	<b>Ø</b> 23
Judge's Comments: Jean did not	
Lean	
Rapid Body Survey	
Teams must check;	
1. The head and neck	<b>1</b> 2 3
Judge's Comments: Jean ded not	
2. The chest	<u>(0)</u> 23
Judge's Comments: Jerem Ded not	
3. The abdomen	Mue 20
Judge's Comments: Jean child the abdomin	

4. The pelvis and buttocks	0.00
Judge's Comments: Jean ded not chech the	(O)1 2 3
polvis and buttackes	
5. The legs	0 1 23
Judge's Comments: Jean charled I Segard Pa	Trale
6. The shoulders and arms	<u>0</u> 1 2 3
Judge's Comments: Jean Led not check	
Secondary Assessment	
Head to Toe Assessment	
The patient will be unconscious 3 minutes after he is lowered to the ground. Team head to toe assessment to thoroughly assess the patient.	s must do a
1. Assess the head	<b>(0)</b> 23
2. Examine the neck and collarbones	<b>0</b> 23
3. Assess the chest for an even rise and fall.	0123
4. Examine the chest and back by touch	<b>Q</b> 1 2 3
5. Listen to the patients breathing and sounds the lungs are producing	0 1 23
6. Examine the abdomen by touch	0123

Page 4 Merits Subtotal

	Page 5
7. Examine the pelvic area by using pressure	2 3
8. Examine the upper, lower legs and feet by touch	0 1 2 1 L
9. Examine the upper, lower arms and hands by touch	(1) 200 mc
10. Reassess pulse	0 1 23
Judge's Comments: Lean reasond pulse	
Jean eramined abdomen, our leg feed	
Treat for Shock	
To treat for shock teams must; 1. Keep patient warm	<b>(1)</b> 2 3
2. Keep patient at rest	0 1 23
Judge's Comments: Jean put blanket on patient 2through Jam lept patient at REST	thin recove
Treatment of Injuries	
1. Treatment for Suspension Trauma Teams must:	
Keep patient in sitting position on the ground ("W" position)	<b>2</b> 3
Loosen harness leg straps	0 1 🔏
Judge's Comments: Jean placed the patient in an uprig	lo satters
Jean: Jorsen Hainess Compelety	
Page 5 Merits Subt	otal

2. When the patient becomes unconscious teams must place patient in the supine poknees flexed.	osition with
Judge's Comments: Jean placed the patient flat with hnees, then fless hnees for transport after 5 m	no flexe
3. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	0 23
Judge's Comments: Jean did not monitor	
4. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<u>O</u> 1 2 3
Judge's Comments: Jean dell not montor	
5. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<b>1</b> 23
Judge's Comments: Jean Lid not muritur	
6. Monitor Patients Vital Signs Teams must monitor the patient's vital signs at not more than 5 minutes intervals.  Judge's Comments: Jewe exceeded 5 minutes	+5
Page 6 Merits St	abtotal /
1 ago o monto de	

1. Teams must transport patient #2 to the evacuation area first	10+
Judge's Comments: Jean Transported this patient	first
Patient Care Report	
1. Teams to fill out casualty care report with the following information	
Date	<b>Q1</b> 2 3
Time	<b>1</b> 2 3
Team number (identity)	<b>1</b> 2 3
Location	<u>O</u> 1 2 3
Patient's Name	0 1 23
Vital Signs	<b>O</b> 1 2 3
Treatment	0(1)23
Injury Location on Body Outline	0 123
Judge's Comments:	

Page 7 Merits Subtotal 16

### 9. Rough Handling Deductions

Minus 1 2 3 4 5

Judge's Comments:	Jean left the patient suspended
Dor 7/20	minutes
Page 8 Patient #	2 Total Merits 52 less Total Demerits 5 Total Score 47
Judge's Signature	: Machille Total
	Dethe
	Las Sail

### INTERNATIONAL MINE RESCUE COMPETITION 2016

### **FIRST AID COMPETITION**

TEAM:	ahina	Pingmei	Senma	9000
-------	-------	---------	-------	------

<u>Casualty - #2</u> A male was working at height when the explosion occurred. The mine rescue team finds him suspended by his fall arrest system. He has abdominal injuries and is suffering from suspension trauma. He is conscious but confused. He says his legs hurt and he is dizzy. He is pale in color and perspiring heavily. The patient becomes non-verbal after he is lowered to safety and loses consciousness 3 minutes later. When the patient has been transported to the evacuation area he will suffer cardiac arrest. CPR with AED will be required.

**Merits Points** SCENE SURVEY 1. Assess Hazards (0) 23 If the team picks up ladder and tools in work area they will have demonstrated assessing and correcting hazards **Judge's Comments:** 2. Use examination gloves Examination gloves must be used before contact with patient occurs 0 1 2(3) 0(1)23Gloves must be removed and disposed of properly Judge's Comments:



### 3. Rescue



The team must have the patient on the ground within 2 minutes of the patient calling for help. The team will be able to stand on the drill to assist patient down. The patient will not speak as soon as he is on the ground.

Judge's Comments:	Y
4. Identify Themselves as Emergency Responders	0 1 20
The team members should identify themselves and ask the patient if he wants help.	
Judge's Comments:	
1. Assess Breathing	
The LOC of Patient #2 changes 3 minutes after he is lowered to the ground. Pati changes from non-responsive to unconscious	ent's LOC
To assess breathing teams must:	
Look for the rise and fall of the chest	<b>1</b> 2 3
Feel for air movement	<b>1</b> 2 3
Listen for air movement	0123
Judge's Comments:	

Page 2 Merits Subtotal \_\_\_\_\_

Assess Circulation	
1. The team must assess circulation	
Pulse	<b>1</b> 2 3
Skin Condition	<b>O</b> 1 2 3
Skin Temperature	0123
Judge's Comments:	
Rapid Body Survey	
Teams must check;	_
1. The head and neck	<b>1</b> 2 3
Judge's Comments:	
2. The chest	<b>d</b> 123
Judge's Comments:	
3. The abdomen	0 1 23
Judge's Comments:	

4. The pelvis and buttocks	<b>(</b> 0123
Judge's Comments:	<b>G. 2</b> 3
<u> </u>	
5. The legs	0 1 23
Judge's Comments:	
6. The shoulders and arms	<b>Ø</b> 123
Judge's Comments:	
Secondary Assessment	
Head to Toe Assessment	
The patient will be unconscious 3 minutes after he is lowered to the ground. Te head to toe assessment to thoroughly assess the patient.	ams must do a
1. Assess the head	<b>1</b> 2 3
2. Examine the neck and collarbones	<b>1</b> 2 3
3. Assess the chest for an even rise and fall.	0 1 23
4. Examine the chest and back by touch	<b>1</b> 2 3
5. Listen to the patients breathing and sounds the lungs are producing	0 1 23
6. Examine the abdomen by touch	0 1 2🐼

	Page 5
7. Examine the pelvic area by using pressure	<b>©</b> 1 2 3
8. Examine the upper, lower legs and feet by touch	0 🗗 2 3
9. Examine the upper, lower arms and hands by touch	<b>1</b> 2 3
10. Reassess pulse	0123
Judge's Comments:  Considered Ster prompt from 1	nterpret
Treat for Shock	
To treat for shock teams must; 1. Keep patient warm	0 🗘 2 3
2. Keep patient at rest	0 1 23
Judge's Comments:  Slow WITH BLANKOT	
Treatment of Injuries	
1. Treatment for Suspension Trauma Teams must:	
Keep patient in sitting position on the ground ("W" position)	<b>1</b> 2 3
Loosen harness leg straps	0 1 2(3)
Judge's Comments:	
logs were bont after	- 34A - 22 - 32
Page 5 Merits Subt	otal

2. When the patient becomes unconscious teams must place patient in the supine posit knees flexed.	ion with
Judge's Comments:	
3. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.  Judge's Comments:	<b>1</b> 2 3
	· · · · · · · · · · · · · · · · · · ·
4. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<b>1</b> 2 3
Judge's Comments:	
5. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<b>1</b> 2 3
Judge's Comments:	
6. Monitor Patients Vital Signs Teams must monitor the patient's vital signs at not more than 5 minutes intervals.	_+5
Judge's Comments:	
Page 6 Merits Subto	otal /

1. Teams must transport patient #2 to the evacuation area first



### Judge's Comments:

Patient Care Report	

1. Teams to fill out casualty care report with the following information

Date	<u>O</u> 1 2 3
Time	<b>3</b> 23
Team number (identity)	<b>1</b> 2 3
Location	<b>1</b> 23
Patient's Name	01
Vital Signs	<b>1</b> 2 3
Treatment	0 🗘 2 3
Injury Location on Body Outline	0 123
Judge's Comments:	

Page 7 Merits Subtotal 16

Minus 1 2 3 455

Judge's Comments:			X	
Capt	hanging	in S	point	for,
way to	long			
Page 8 Patient #2	Γotal Merits <u>52</u> Ι	ess Total Demerit	ts <u> </u>	Score 47
Judge's Signature: _	400	7		

9. Rough Handling Deductions

Page 1 Merits Subtotal 4

# INTERNATIONAL MINE RESCUE COMPETITION 2016

### **FIRST AID COMPETITION**

TEAM:	China	Piname's Sens	ra Group #	3
			The second secon	

<u>Casualty - #2</u> A male was working at height when the explosion occurred. The mine rescue team finds him suspended by his fall arrest system. He has abdominal injuries and is suffering from suspension trauma. He is conscious but confused. He says his legs hurt and he is dizzy. He is pale in color and perspiring heavily. The patient becomes non-verbal after he is lowered to safety and loses consciousness 3 minutes later. When the patient has been transported to the evacuation area he will suffer cardiac arrest. CPR with AED will be required.

SCENE SURVEY

1. Assess Hazards
1. Assess Hazards
1. If the team picks up ladder and tools in work area they will have demonstrated assessing and correcting hazards

Judge's Comments:

2. Use examination gloves

Examination gloves must be used before contact with patient occurs

O 1 23

Gloves must be removed and disposed of properly

Judge's Comments:

3. Rescue		
The team must have the patient on the ground within 2 m. The team will be able to stand on the drill to assist patient soon as he is on the ground.	nt down. The patient wi	-
soon as he is on the ground.	nelp	
Judge's Comments:	down 8.36	unconscious
	11:36.	-
4. Identify Themselves as Emergency Responders		0 1 23
The team members should identify themselves and ask t	he patient if he wants h	elp.
Judge's Comments:		
3		<del> </del>
	ne ne	
1. Assess Breathing		
The LOC of Patient #2 changes 3 minutes after he is	lowered to the ground	l. Patient's LOC
changes from non-responsive to unconscious		
To assess breathing teams must:		X
Look for the rise and fall of the chest		0123
Feel for air movement		0 1 2 3
Listen for air movement		<b>0</b> /1 2 <b>♂</b>
Judge's Comments:		

Page 2 Merits Subtotal 6

Supposition back.

[Ocsep Streeps.]

· hards

Assess Circulation	
1. The team must assess circulation	
Pulse	© 23
Skin Condition	0 2 3
Skin Temperature	0123
Judge's Comments:	
E. D. C. D. L. C	
Rapid Body Survey	
Teams must check;	
1. The head and neck	0 1, 2 3
Judge's Comments:	
2. The chest	<u>0</u> 23
Judge's Comments:	
3. The abdomen	0 1 23
Judge's Comments:	

4. The pelvis and buttocks	(0) 23
Judge's Comments:	0,23
5. The legs	0 1 2 3
Judge's Comments:	
6. The shoulders and arms	<b>1</b> 23 Ø
Judge's Comments:	
	W
Secondary Assessment	
Head to Toe Assessment	
The patient will be unconscious 3 minutes after he is lowered to the gr head to toe assessment to thoroughly assess the patient.	ound. Teams must do a
1. Assess the head	<b>2</b> 3
2. Examine the neck and collarbones	<b>1</b> 2 3
3. Assess the chest for an even rise and fall.	<b>(£)</b> 2(3)
4. Examine the chest and back by touch	<b>(1)</b> 23
5. Listen to the patients breathing and sounds the lungs are producing	0 1 23
6. Examine the abdomen by touch pointed to building	ey only. 0123
· ·	e 4 Merits Subtotal

<ul> <li>7. Examine the pelvic area by using pressure</li> <li>8. Examine the upper, lower legs and feet by touch</li> <li>9. Examine the upper, lower arms and hands by touch</li> <li>10. Reassess pulse</li> <li>Judge's Comments:</li> </ul>	① 23 ②①23
<ul><li>9. Examine the upper, lower arms and hands by touch</li><li>10. Reassess pulse</li></ul>	<b>2</b> 3
10. Reassess pulse	
· ·	0123
Judge's Comments:	23
Treat for Shock	
To treat for shock teams must;  1. Keep patient warm    Cos	0 (1)2 3
2. Keep patient at rest	0123
Judge's Comments:	
Treatment of Injuries	
1. Treatment for Suspension Trauma Teams must:	
Keep patient in sitting position on the ground ("W" position) 10:08  flat = stretcher legs possition knees	O123 Sheat
Loosen harness leg straps \ate -	0 1 23
Judge's Comments:	

2. When the patient becomes unconscious teams must place patient in the supine posknees flexed.	0023
Judge's Comments:	
transported = knee bent	
3. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<b>(</b> )1 2 3
Judge's Comments:	
Checked responsibeless only	
4. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<b>(1)</b> 23
Judge's Comments:	
5. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.	<u>6</u> ) 23
Judge's Comments:	
6. Monitor Patients Vital Signs Teams must monitor the patient's vital signs at not more than 5 minutes intervals.	
Judge's Comments:	
Page 6 Merits Sul	ototal

1. Teams must transport patient #2 to the evacuation area first

## 10+

0①23

0 123

### Judge's Comments:

**Patient Care Report** 

1. Teams to fill out casualty care report with the following inform	nation
Date	0123
Time	@1 2 3
Team number (identity)	1 2 3
Location	<b>6</b> 123
Patient's Name	0123
Vital Signs	<b>(</b> 0)1 2 3

Judge's Comments:

Injury Location on Body Outline

Treatment

Page 7 Merits Subtotal 16

9. Rough Handling Deductions	Minus 1 2 3 4
Judge's Comments:	
told by Judge to get him don	2
Page 8 Patient #2 Total Merits less Total Demerits Total	l Score
Judge's Signature:	_

Page 1

# INTERNATIONAL MINE RESCUE COMPETITION 2016

### **FIRST AID COMPETITION**

TEAM: China Pingmei Senmagroup.

Casualty - #2 A male was working at height when the explosion occurred. The mine rescue team finds him suspended by his fall arrest system. He has abdominal injuries and is suffering from suspension trauma. He is conscious but confused. He says his legs hurt and he is dizzy. He is pale in color and perspiring heavily. The patient becomes non-verbal after he is lowered to safety and loses consciousness 3 minutes later. When the patient has been transported to the evacuation area he will suffer cardiac arrest. CPR with AED will be required.

Merits Points

SCENE SURVEY

1. Assess Hazards

If the team picks up ladder and tools in work area they will have demonstrated assessing and correcting hazards

Judge's Comments:

2. Use examination gloves

Examination gloves must be used before contact with patient occurs

O 1 2 8

Gloves must be removed and disposed of properly

Judge's Comments:

2 Judge's Comments:

Page 1 Merits Subtotal

2	Rescue	,
J	<b>Nestu</b>	3



The team must have the patient on the ground within 2 minutes of the patient calling for help. The team will be able to stand on the drill to assist patient down. The patient will not speak as soon as he is on the ground.

Judge's Comments:	
4. Identify Themselves as Emergency Responders	0 1 2(3
The team members should identify themselves and ask the patient if he wants help.	
Judge's Comments:	
1. Assess Breathing	
The LOC of Patient #2 changes 3 minutes after he is lowered to the ground. Patie changes from non-responsive to unconscious	ent's LOC
To assess breathing teams must:	M
Look for the rise and fall of the chest	(0/1 2 3
Feel for air movement	(D) 1 2 <u>3</u>
Listen for air movement	0129
Judge's Comments:	

Page 2 Merits Subtotal \_\_\_\_

Assess Circulation	
1. The team must assess circulation	
Pulse	01 2 3
Skin Condition	<u> </u>
Skin Temperature	0 23
Judge's Comments:	
Rapid Body Survey	
Teams must check;	
1. The head and neck	0123
Judge's Comments:	
2. The chest	0123
Judge's Comments:	
3. The abdomen	0 1 2 3
Judge's Comments:	
	750,000

4. The pelvis and buttocks	<b>(</b> 0123
Judge's Comments:	0123
5. The legs	0 1 🖄 3
Judge's Comments:	
6. The shoulders and arms	<u>0</u> i'23
Judge's Comments:	
Secondary Assessment	
Head to Toe Assessment	
The patient will be unconscious 3 minutes after he is lowered to the grade head to toe assessment to thoroughly assess the patient.	ound. Teams must do a
1. Assess the head	<u>(0</u> 123
2. Examine the neck and collarbones	<b>1</b> 2 3
3. Assess the chest for an even rise and fall.	0126
4. Examine the chest and back by touch	<b>0</b> 123
5. Listen to the patients breathing and sounds the lungs are producing	0 1 23
6. Examine the abdomen by touch	0 1 2 3
Dog	a 4 Marita Subtatal

	Page 5
7. Examine the pelvic area by using pressure	0123
8. Examine the upper, lower legs and feet by touch feet only	0 0 2 3
9. Examine the upper, lower arms and hands by touch	0123
10. Reassess pulse	0 1 23
Judge's Comments:	
Treat for Shock	
To treat for shock teams must; 1. Keep patient warm	0 1 2 3
2. Keep patient at rest	0 1 2 3
Judge's Comments:	
Treatment of Injuries	
1. Treatment for Suspension Trauma Teams must:	
Keep patient in sitting position on the ground ("W" position)	0 23
Loosen harness leg straps	0123
Judge's Comments:	
Page 5 Merits	Subtotal

Judge's Comments: 5min 5 L	
3. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.  Judge's Comments:	<u>(</u> 0)1 2 3
4. Monitor Patients Vital Signs	(O)1 2 3
Teams must monitor the patient's vital signs.  Judge's Comments:	
5. Monitor Patients Vital Signs Teams must monitor the patient's vital signs.  Judge's Comments:	<b>1</b> 2 3
6. Monitor Patients Vital Signs	<del>)</del> 5
Teams must monitor the patient's vital signs at not more than 5 minutes intervals.  Judge's Comments:	
Page 6 Merits Sub	1

1. Teams must transport patient #2 to the evacuation area first



### Judge's Comments:

### **Patient Care Report**

1. Teams to fill out casualty care report with the following information

Date	<b>1</b> 2 3
Time	<b>1</b> 2 3
Team number (identity)	<b>1</b> 23
Location	<b>3</b> 23
Patient's Name	0123
Vital Signs	<b>1</b> 23
Treatment	0023
Injury Location on Body Outline	0 23
Judge's Comments:	

Page 7 Merits Subtotal \_\_\_\_\_



9. Kough Handling Deductions			Minus	12343
Judge's Comments: Casually	left	hanging	long time	,
Page 8 Patient #2 Total Merits				
Judge's Signature:				

MASTER

# INTERNATIONAL MINE RESCUE COMPETITION 2016

## **FIRST AID COMPETITION**

TEAM: Gar	(2)HOU	YONGGIL		SOLV CO	Elany	
	Cnin	3.3.5	4 eg	SENM	Group.	
The mine rescu	ue team find le blunt forc	s him entangled e injuries includ	d in the drill	rods. He is con	e and explosion nscious but is no ft elbow, open f	on-verbal.
SCENE SURVEY	<u> </u>					Ó
1. Assess Hazards If the team shuts o hazards. Teams m	ff power to	•			-	0 1 <b>25</b> 0
Judge's Commen		son rov	ue Ha	Z4+05		<u>-</u>
2. Use examination	on gloves					
Examination glove	es must be u	sed before cont	act with pati	ent occurs		0 1 23
Gloves must be re	moved and	disposed proper	·ly			<b>O</b> 1 2 3
Judge's Commen	its:	SEVERAL	Guys	WENT	BACK	-
2 G445	DIDNOT	REPOUE	Glove	FOFM	WITYOUT	
117				CHAYE	ING	
				Page	1 Merits Subtot	al <u>5</u>

	Page 2
3. Identify Themselves as Emergency F	Responders 0 1 2 3
The team members should identify thems	elves and ask the patient if he wants help.
Judge's Comments:	REMOVE
Assess Breathing	
1. The team must assess the airway. Patient #3 will not speak, to assess the air Look for the rise and fall of the chest Feel for air movement Listen for air movement Judge's Comments:	way the team must:  0 1 20 0 1 20 0 1 20 0 1 20
	away the patients shirt to free him from the drill rods.
Judge's Comments:	
	Page 2 Merits Subtotal 14

	Page 4
4. The pelvis and buttocks	0.1.263
Judge's Comments:	0 1 2(3)
5. The legs	0 1 23
Judge's Comments:	
6. The shoulders and arms	0 1 23
Judge's Comments:	
Head to Toe Assessment	
The patient will not respond to verbal stimuli. Teams must do a head to toe assessment thoroughly assess the patient.	o
1. Assess the head	0 1 23
2. Examine the neck and collarbones	0123
3. Assess the chest for an even rise and fall.	<b>(</b> ) 23
4. Examine the chest and back by touch	0123
5. Listen to the patients breathing and sounds the lungs are producing	<b>2</b> 3
6. Examine the abdomen by touch	0125
7. Examine the pelvic area by using pressure	0 1 23>

	Page 5
8. Examine the upper, lower legs and feet by touch	0 1 23
9. Examine the upper, lower arms and hands by touch	0123
10. Reassess pulse	① 23
Judge's Comments:	
	<del></del>
1. Treat for Shock To treat for shock teams must;	
Reassure patient	0 1 2(3)
Keep patient warm	0 1 <b>Ø</b> 3
Keep patient at rest	0 1 23
Judge's Comments:  TOO LONG FOR BUTNICET	
Treatment of Injuries  1. Treat Open Fracture to Left Elbow (Arm will not bend)  If teams bend arm to splint rough handling will apply  Fully expose injury	0 1 2(3)
Maintain arm in position of comfort	0 1 23
Apply dressing PRESSURE ORESSING	0 1 2(3)
Pad above and below wound	0 1 23
Apply a bandage	0126
Apply bandage to support the arm at the wrist	(i) 23

	Page 6
Apply padding between injury and patients side	0 1 23
Apply broad bandage above the fracture	0 1 23
Apply broad bandage below the fracture	<b>(1)</b> 23
Check circulation below the injury before splinting	<b>(</b> ) 2 3
Check circulation below the injury after splinting	<b>1</b> 2 3
Compare circulation to uninjured arm	<b>(i)</b> 23
Judge's Comments:	
3. Treat Laceration to Left Knee	9
3. Treat Laceration to Left Knee Fully expose injury	0 1 2 <b>(3)</b>
	0 1 2 <b>3</b> ) <b>1</b> 2 3
Fully expose injury	_
Fully expose injury Apply Dressing	<b>©</b> 1 2 3
Fully expose injury  Apply Dressing  Apply Bandage	©1 2 3 ©1 2 3
Fully expose injury  Apply Dressing  Apply Bandage  Check circulation below injury before applying bandage	①1 2 3 ①1 2 3 ①1 2 3

	Page 7
4. Open Fracture Lower Left Leg	
Fully expose injury	0 1 2(3)
Apply Dressing	0126
Apply Padding	<b>©</b> 1 2 3
Apply Broad Bandage to secure Padding	<b>(</b> )1 2 3
Pad splint	<b>(</b> ) 23
Apply splint	+3
Bandages	
Thigh	0 1 23
Knee	0129
Above Fracture	<b>©</b> 1 2 3
Below Fracture	0 1 23
Figure of Eight	0 1 2(3)
Check circulation below injury before splinting	<b>©</b> 1 2 3
Check circulation below injury after splinting	<b>©</b> 1 2 3
Compare circulation to uninjured leg	<b>©</b> 1 2 3
Judge's Comments: FIGURE 8 WITH SMAP.	

Page 7 Merits Subtotal 2/

Patient Care Report	
1. Teams to fill out casualty care report with the following information	
Date	<b>O</b> 123
Time	<b>@</b> 123
Team number (identity)	<b>6</b> 123
Location	<b>(D</b> 1 2 3
Patient's Name	0 1 2 <b>3</b>
Vital Signs DECEMPION, NO PURPOS	0 123
Treatment	0 1 2 <b>3</b> )
Injury Location on Body Outline	0 1@3
Judge's Comments:  MISSED KNEC	=
6. Rough Handling Deductions	Minus(1)2 3 4 5
Judge's Comments:	
BENT ARM FOR SLING	
Page 8 Merit	ts Subtotal
Patient #3 Total Merits 12 less Total Demerits To	tal Score 120
Judge's Signature:	
Merch Stone BASTIEN  Merch Stone BASTIEN	

# INTERNATIONAL MINE RESCUE COMPETITION 2016

# **FIRST AID COMPETITION**

TEAM:	CHINA ~	PINGMEI	SENMA	GROUP		
The mine He has m	e rescue team fi	nds him entang rce injuries inc	led in the d	rill rods. He	is consciou	explosion occurred. s but is non-verbal. w, open fracture of
SCENE SUI	RVEY					
	<mark>ızards</mark> huts off power t ms must shut of					
Judge's Cor	nments: Moved try	hagards	multiple	times	55	
2. Use exam	ination gloves					
Examination	gloves must be	used before co	ontact with p	patient occu	rs	0 1 23
Gloves must	be removed and	d disposed prop	perly			<b>1</b> 2 3
Judge's Cor	nments:					
	<u> </u>					
						U.
					Page 1 Meri	its Subtotal

	Page 2
3. Identify Themselves as Emergency Responders	0123
The team members should identify themselves and ask the patient if he wants help.	
Judge's Comments:	· · · · · · · · · · · · · · · · · · ·
Assess Breathing	
1. The team must assess the airway. Patient #3 will not speak, to assess the airway the team must: Look for the rise and fall of the chest Feel for air movement Listen for air movement	0 1 23 0 1 23 0 1 23
Judge's Comments:	
2. Extrication  The team will need to use scissors to cut away the patients shirt to free him from the d	rill rods.
Judge's Comments:	

Page 2 Merits Subtotal \_\_\_\_\_

Assess Circulation	
1. The team must assess circulation To assess circulation teams must check;	
Pulse	<u></u>
Skin Condition	<b>0</b> 1 2 3
Skin Temperature	0 1 2 3
Judge's Comments:	
Rapid Body Survey	
Teams must check;	
1. The head and neck	0123
Judge's Comments:	
2. The chest	0123
Judge's Comments:	
3. The abdomen	0123
Judge's Comments:	
	Page 3 Merits Subtotal

	Page 4
4. The pelvis and buttocks	0123
Judge's Comments:	01239
5. The legs	0123
Judge's Comments:	
6. The shoulders and arms	0123
Judge's Comments:	
Head to Toe Assessment	
The patient will not respond to verbal stimuli. Teams must do a head to toe assessment to thoroughly assess the patient.	
X. Assess the head	0123
2. Examine the neck and collarbones	0 1 23
3. Assess the chest for an even rise and fall.	0123
4. Examine the chest and back by touch	0 1 23
5. Listen to the patients breathing and sounds the lungs are producing	0123
16. Examine the abdomen by touch	0123
T. Examine the pelvic area by using pressure	0123

	Page 5
8. Examine the upper, lower legs and feet by touch	0123
9. Examine the upper, lower arms and hands by touch	0 1 2(3)
10. Reassess pulse	(0)1 2 3
Judge's Comments:	
	it.
Treat for Shock     To treat for shock teams must;	
Reassure patient	0 1 2(3
Keep patient warm	0 123
Keep patient at rest	0 1 23
Judge's Comments:	
Treatment of Injuries  1. Treat Open Fracture to Left Elbow (Arm will not bend)	
If teams bend arm to splint rough handling will apply  Fully expose injury	0 1 2(3)
Maintain arm in position of comfort	0 1 2(3)
Apply dressing	0 1 23
Pad above and below wound pad either sich of splint.	0 1 23
Apply a bandage	0 1 23
Apply bandage to support the arm at the wrist	@ 23

Page 5 Merits Subtotal \_\_\_\_\_

	Page 6
Apply padding between injury and patients side	0 1 23
Apply broad bandage above the fracture	0123
Apply broad bandage below the fracture	①1 2 3
Check circulation below the injury before splinting	①123
Check circulation below the injury after splinting	①1 2 3
Compare circulation to uninjured arm	0,123
Judge's Comments:	
3. Treat Laceration to Left Knee	
3. Treat Laceration to Left Knee Fully expose injury	0123
	0123
Fully expose injury	
Fully expose injury Apply Dressing	①123
Fully expose injury Apply Dressing Apply Bandage	①1 2 3 ①1 2 3
Fully expose injury  Apply Dressing  Apply Bandage  Check circulation below injury before applying bandage	①1 2 3 ①1 2 3 ①1 2 3

Page 6 Merits Subtotal \_\_\_\_\_

Page 7 Merits Subtotal \_\_\_\_\_

# **Patient Care Report**

1. Teams to fill out casualty care report with the following information	
×Date	0123
	0,123
×Team number (identity)	<u></u> 0123
Location	①123
Patient's Name	0 1 23
Wital Signs pour description no state eg normal vs	64 B/m 0123
Preatment	0 1 23
Injury Location on Body Outline 2/3 injuries identified	0 123
Judge's Comments:	
6 Rough Handling Deductions	Minur(1) 2 2 4 5
6. Rough Handling Deductions	Minus(1) 2 3 4 5
Judge's Comments: Bent arm when nothing string to bet	corus.
Page 8 Merits	Subtotal
Patient #3 Total Merits less Total Demerits Total	l Score
Judge's Signature: SDAWE	t. 965 S 730

# **INTERNATIONAL** MINE RESCUE COMPETITION 2016

# FIRST AID COMPETITION TEAM: PINGMET SENTING PROVID - CANNA

<u>Casualty - #3</u> A male patient was repairing the drill when the fire and e The mine rescue team finds him entangled in the drill rods. He is conscious He has multiple blunt force injuries including an open fracture of left elborleft lower leg, and lacerated left knee.	s but is non-verbal.
SCENE SURVEY	
1. <u>Assess Hazards</u> If the team shuts off power to the drill they will have demonstrated assessing a hazards. Teams must shut off the power before they try to extricate the patient.	_
Judge's Comments:  FULLUR OFF DEITL RICHT AWAY  CLEANOR UP ALLHT AWAY BUT NOT FAN ENOUGH	
2. Use examination gloves	,
Examination gloves must be used before contact with patient occurs	0123
Gloves must be removed and disposed properly	0123
Judge's Comments:  CROSS CONTAMINATION (3+)	
Page 1 Meri	ts Subtotal

(3. Identify Themselves as Emergency Responders	0123
The team members should identify themselves and ask the patient if he wants help.	
Judge's Comments:	
Assess Breathing	
1. The team must assess the airway.	
Patient #3 will not speak, to assess the airway the team must:	
Look for the rise and fall of the chest	0123
Feel for air movement Listen for air movement	0123
Listen for air movement	0123
Judge's Comments:	3
2. Extrication  The team will need to use scissors to cut away the patients shirt to free him from the	drill rods.
Judge's Comments:	
31	
Page 2 Merits Sub	ototal

Assess Circulation	
1. The team must assess circulation To assess circulation teams must check;	
Pulse	<b>0</b> 1 2 3
Skin Condition	<b>1</b> 2 3
Skin Temperature	0123
Judge's Comments:	
Rapid Body Survey	
Teams must check;	
1. The head and neck	0123
Judge's Comments:	
~2. The chest	0 1 2 3
Judge's Comments:	
3. The abdomen	0123
Judge's Comments:	

	Page 4
4. The pelvis and buttocks	0123
Judge's Comments:	
5. The legs	0 1 2 3
Judge's Comments:	
6. The shoulders and arms	0 1 2 3
Judge's Comments:	
Head to Toe Assessment	
The patient will not respond to verbal stimuli. Teams must do a head to toe thoroughly assess the patient.	assessment to
1. Assess the head	0123
√ 2. Examine the neck and collarbones	0 1 2 3
× 3. Assess the chest for an even rise and fall.	0123
4. Examine the chest and back by touch	0123
√ 5. Listen to the patients breathing and sounds the lungs are producing	0123
6. Examine the abdomen by touch	0123
7. Examine the pelvic area by using pressure	0123

	Page 5
8. Examine the upper, lower legs and feet by touch	0123
9. Examine the upper, lower arms and hands by touch	0 1 2(3)
√ 10. Reassess pulse	0123
Judge's Comments:	
1. Treat for Shock To treat for shock teams must;	
Reassure patient	0123
Keep patient warm BLANKLOT LATE E 17m	0 1 2 3
Keep patient at rest	0 1 2 3
Judge's Comments:	
	<del></del>
Treatment of Injuries  1. Treat Open Fracture to Left Elbow (Arm will not bend)  If teams bend arm to splint rough handling will apply	
Fully expose injury	0 1 2 3
Maintain arm in position of comfort	0 1 2 3
Apply dressing	0123
Pad above and below wound	0 1 2 3
Apply a bandage	0 1 2 3
	01 2 3

	Page
Apply padding between injury and patients side	012
Apply broad bandage above the fracture	0 1 2
X Apply broad bandage below the fracture	012
∨ Check circulation below the injury before splinting	012
X Check circulation below the injury after splinting	012
X Compare circulation to uninjured arm	0)1 2
Judge's Comments:	
Fully expose injury	012
Fully expose injury	012
∨ Apply Dressing	<b>0</b> 12
∀ Apply Bandage	<b>0</b> 1 2
	①1 2 ②1 2
∀ Apply Bandage	0 1 2
<ul> <li>         ∀Apply Bandage     </li> <li>         ∀ Check circulation below injury before applying bandage     </li> </ul>	

Page 6 Merits Subtotal

Page 7 Merits Subtotal

Patient Care Report	
1. Teams to fill out casualty care report with the following information	
× Date	<b>Q</b> 123
∑ Time	Q123
Team number (identity)	<b>123</b>
Location	0123
Patient's Name	0123
Vital Signs DISCRIPTION, NO STATS/NUMBERS	0 123
Treatment	0 1 2 3
Injury Location on Body Outline 2/3	0 1(2)3
Judge's Comments:  DID NOT IDENTIFY ON THEN	T EUT TO
ENTE.	
	(4)
6. Rough Handling Deductions	Minus 12 3 4 5
Judge's Comments:  Bens At Bx ADM WHEN SOCUEING TO P	E OTNER ALW
Page 8 Meri	ts Subtotal
Patient #3 Total Merits less Total Demerits To	otal Score
Judge's Signature:	

# INTERNATIONAL MINE RESCUE COMPETITION 2016 FIRST AID COMPETITION

CPR AED

Mestor Short

TEAM:_	CHINA	PINGMEI	Senna	GROUP	(CHINA)
Team App	roach				
1 Cantain	calls in and nr	ovides an und	late		

Team must update control centre

01(3)

**Judge's Comments:** 

used phase !

### 2. Initial Response

A team member Assesses patient Prepares to start CPR	①1 2 3 0 1 2 8
A team member Sets up personal pocket mask	0 1 23
A team member Gets the AED Sets up the AED	0 1 2 3 0 1 2 3

Team reeded to assess patret
intilly - instead CPR was storted weed the

Page 1 Merits Subtotal 15

Use examination gloves	
Examination gloves must be used before contact with patient occurs	0123
Airway check Breathing check Circulation check	0123 0123 0123
Judge's Comments:	
No assessment of pt prior to starting CR	
a chest	
Rescuer #1 to start CPR Immediately (without delay)	<b>(+)</b>
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0 1(2)8
Place the other hand on top.	0123
Do 30 compressions	0123
Allow the chest to recoil after each compression.	012
Judge's Comments:	
CPR was slighty los and chest	
	<del></del>
5. Rescue breather #1 with a Resuscitation Mask (pocket mask)	
Place the mask so that it covers the person's mouth and nose.	0123
Position the lower rim of the mask between the person's lower lip and chin.	0123
The opposite end of the mask should cover the nose	012(3)

	Page 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0123
Maintain an open airway using head tilt chin lift.	0123
Give two breaths	012/3
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0123
Judge's Comments:	
6. AED arrives Must be started immediately (without delay)	0123
Open and turn on the AED	0123
Remove any clothing or objects (including Jewelry) from the person that may come in contact with the pads.	0 1 2(3)
Remove any medical patches, including nitroglycerin, nicotine, or hormone.	0123
Ensure that the chest is dry and free of hair so the pads can stick.	0123
Properly place the AED Pads (follow the diagrams on the pads)	0123
Pads must be at least 2.5cm (1") between pads when placed on the chest.	0123
Follow the AED's automated prompts	0123

	Page 4
When the AED prompts you to give a shock the team should:	
Stand clear 0	123
Say "I'm clear, you're clear, everybody's clear."	1 23
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.  0	128
Judges' Comments:	
CPR Rescuer #2	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	128
Place the other hand on top.	128
Do 30 compressions	123
Allow the chest to recoil after each compression.	12[3]
Judge's Comments:  healts were low on chest - over Kiphaid bond	٤

Rescue Breather #2:	Page 5
Set up personal pocket mask	0123
Place the mask so that it covers the person's mouth and nose.	0128)
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0 1 2(3) 0 1 2(3)
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0123
Maintain an open airway using head tilt chin lift.	0128
Give two breaths	012
Watch to see if chest is rising and falling.	012
Repeat 2 breaths every thirty compressions	0 1 2(3)
Judge's Comments:	
Follow the AED's automated prompts	012(3)
When the AED prompts you to give a shock the team should:	
Stand clear	0 1 2(3)
	(ع 1 1 0
Say "I'm clear, you're clear, everybody's clear."	
Say "I'm clear, you're clear, everybody's clear."  Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	0128

CPR Rescuer #3	Page 6
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0 1 2(3)
Place the other hand on top.	0128
Do 30 compressions. (Compression depth 5cm (2 inches)	0123
Allow the chest to recoil after each compression.	0128
Judge's Comments:	
Rescue Breather #3	
Set up personal pocket mask	0123)
Place the mask so that it covers the person's mouth and nose.	012(3)
Position the lower rim of the mask between the person's lower lip and chin.  The opposite end of the mask should cover the nose	012 <u>③</u> 012 <u>⑤</u>
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	012/3\
Maintain an open airway using head tilt chin lift. Not doing a headfulf the lift properly	0123
then lift properly	0126
Give two breaths	0123
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0129
Judge's Comments: Need to do a head 6H klim 11th	
to one airus as	

	Page 7
Follow the AED's automated prompts	0123
When the AED prompts you to give a shock the team should:	
Stand clear	<b>@</b> 123
Say "I'm clear, you're clear, everybody's clear."  No Shock  Make sure that no one is touching the person in cardiac arrest	Ø123
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	<b>0</b> 123
Judge's Comments:	
CPR Rescuer #4	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0123
Place the other hand on top.	0 1 2(3)
Do 30 compressions	0123
Allow the chest to recoil after each compression.	012/3
Judge's Comments:	
Rescue Breather #4	
Set up personal pocket mask	012
Place the mask so that it covers the person's mouth and nose.	0123

	Page 8
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0128 0123
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0128
Maintain an open airway using head tilt chin lift.	012(3)
Give two breaths	0123
Watch to see if chest is rising and falling.	0 1 23
Repeat 2 breaths every thirty compressions	0123
Judge's Comments:	
Follow the AED's automated prompts	0 1 2(3)
When the AED prompts you to give a shock the team should:	
	0123
Stand clear  Say "I'm clear, you're clear, everybody's clear."	(0)1 2 3
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	<b>0</b> 1 2 3
Judge's Comments:	
CPR Rescuer #5	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	012/3
Place the other hand on top.	0123
Do 30 compressions.	0123

Allow the chest to recoil after each compression.	0 1 2(3)
Judge's Comments:	
Rescue Breather #5	
Set up personal pocket mask	0 1 23
Place the mask so that it covers the person's mouth and nose.  Seal for 15th	0 128
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0 1 2 3 0 1 2 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0 1 23
Maintain an open airway using head tilt chin lift. 9000 chi lift off	0 123
Give two breaths	0128
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0 1 23
Judge's Comments:	
Mack thit is all not in correct spot on face + n	is cettern
Mark in it is all and in correct spot on have t in war much to one the girway - woth were come left the Bld cycle.	CACA

Page 9 Merits Subtotal \_\_\_\_\_\_\_\_

Follow the AED's automated prompts	0123
When the AED prompts you to give a shock the team should:	
Stand clear	0123
Say "I'm clear, you're clear, everybody's clear."  No Shock  Make sure that no one is touching the person in cardiac arrest	<b>0</b> 1 2 3
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	<b>©</b> 1 2 3
Judge's Comments:	
	-
Rough Handling Deductions Min	ous 1/2 3 4 5
Judge's Comments: Did not do 2 person CPR	
despits hours 6 searce on team	
Thus team working inafficially.	
Page 10 Merits Subto	otal
CPR/AED Total Merits less Total Demerits	_Total Score <b>26</b>
Judge's Signature: R. SIMARS	
Norm LaDoucoul Shadow	

# CPR SCORE SHEET CPR Quality

	· ·	or it quality	
Average Chest Com	pressions Rate for team		
0 (<80 or >140)	1 (80-90 or 130-140)	2 (30-100 or 1	3 (100-120)
Number of individu	al cycles of 100-120 compre	essions per minute (5 pa	articipants with 5 cycles each)
0 (0)	1'(1)-14)	2 (15-24)	3 (25)
Average Depth of co	ompressions (compressions	should be 5 to 6 cm de	ep)
0 (34cm or >7cm) 0.5cm	1 (4-4.5cm or 6.5-7cm	2 (4.5-5cm or	6-6.5cm) 3 (5-6 cm)
Percentage of comp	pressions where full recoil o	of the chest was allowed	
0 (0% - 50%)	1 (50%-75%)	(2 (75%-90%) 76°6	3 (90-100%)
Total amount of inte	erruption duration		
0)-2 minutes)	1 (1.5 – 2 minutes)	2 (1 – 1.5 minutes)	3 (<1 minute)
07:06			
Effective Compressi			
0 (0% - 50%)	1 (\$0%-75%) 50°6	2 (75%-90%)	3 (90-100%)
Effective Ventilation	ns		
0 (0% - 50%)	1 (50%-75%)	2 (75%-90%)	3 (90-100%)
33% Judge's Comments:	CPR too slow	t performed	too low on chast
	CPL dae on a	Sdone at he	nes
	Vertilation too		
Deductions Minus	\ lb.		0 1 2 3 4 5
Judge's Comments:	Toute		
Navidsol	John reve	W RSJ	(6pts)

# INTERNATIONAL MINE RESCUE COMPETITION 2016 FIRST AID COMPETITION CPR AED

## **Judges Instructions**

fing me! Sen ma Group

Scoring:

0 = not done

1 = poor attempt

2 = needs improvement

3 = excellent meets all requirements

1. Every line must be scored.

2. A score of 0, 1 or 2 must be explained by the judges or the Chief Judge will remove the demerit.

3. When a score of 3 is applied, comments are encouraged

4. If a team runs out of time a score of 0 will apply to remaining actions

#### Rough Handling

- 1. Rough handling demerits will be deducted from the total score
- 2. Judges can deduct 1 to 5 points per each patient
- 4. Rough handling demerits will have a maximum of 10 points
- 3. Rough handling deductions must be explained by the judges

### Scenario

The team will transport the patient with the highest priority from the accident scene to the receiving area (sea containers). Upon arrival at the receiving area the patient will be told the patient is vital signs absent.

The team will be required to begin CPR, provide ventilations with a pocket mask and use an AED. A CPR mannequin in a stretcher will be located in the receiving area. When five team members have completed CPR and ventilations the competition will be completed.

# INTERNATIONAL MINE RESCUE COMPETITION 2016 FIRST AID COMPETITION CPR AED

TEAM: CHINA	Pinigmei Senma Grou	ρ
Team Approach		1
1. Captain calls in and provides	an update	,
Team must update control centrol  Judge's Comments:	n Ame	012
2. Initial Response		
A team member Assesses patient Prepares to start CPR	No assument	①1 2 3 0 1 2 3
A team member Sets up personal pocket mask		012(3)
A team member Gets the AED Sets up the AED		0125

Position the lower rim of the mask between the person's lower lip and chin.

The opposite end of the mask should cover the nose

Page 2 Merits Subtotal 28

	Page 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0 1 23
Maintain an open airway using head tilt chin lift.	0 1 2 3
Give two breaths	0 1 2(3)
Watch to see if chest is rising and falling.	0 1 2(3)
Repeat 2 breaths every thirty compressions	0123/
Judge's Comments:	
6. AED arrives Must be started immediately (without delay)	0123)
Open and turn on the AED	0123
Remove any clothing or objects (including Jewelry) from the person that may come in contact with the pads.	0 1 2 3
Remove any medical patches, including nitroglycerin, nicotine, or hormone.	0123
Ensure that the chest is dry and free of hair so the pads can stick.	0 1 2(3)
Properly place the AED Pads (follow the diagrams on the pads)	0 1 2(3)
Pads must be at least 2.5cm (1") between pads when placed on the chest.	0123
Follow the AED's automated prompts	0123

Page 4 Merits Subtotal

Rescue Breather #2:	Page 5
Set up personal pocket mask	0 1 2(3)
Place the mask so that it covers the person's mouth and nose.	0123
Position the lower rim of the mask between the person's lower lip and chin.  The opposite end of the mask should cover the nose	0 1 2 3 0 1 2 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0 1 2③
Maintain an open airway using head tilt chin lift.	012③
Give two breaths	0 1 2(3)
Watch to see if chest is rising and falling.	0 1 2(3)
Repeat 2 breaths every thirty compressions	0 1 2(37)
Judge's Comments:	
Follow the AED's automated prompts	0123
When the AED prompts you to give a shock the team should:	
Stand clear	0 1 2(3)
Say "I'm clear, you're clear, everybody's clear."	0 1 2(3)
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	012(3)
Judge's Comments:	

CPR Rescuer #3	Page 6
	0.1.261
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0123
Place the other hand on top.	0123
Do 30 compressions. (Compression depth 5cm (2 inches)	0123
Allow the chest to recoil after each compression.	0123
Judge's Comments:	
30 30 30	
Rescue Breather #3	
Set up personal pocket mask	012(3)
Place the mask so that it covers the person's mouth and nose.	0 1 2(3)
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0123
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	012
Maintain an open airway using head tilt chin lift.	0123
Give two breaths	012(3)
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0123
Judge's Comments: No proper had tittchw Li	ff _

	Page 7
Follow the AED's automated prompts	0 1 2 3/
When the AED prompts you to give a shock the team should:	
Stand clear	(9123
Say "I'm clear, you're clear, everybody's clear."	(g)123
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	O1 23
Judge's Comments: NO Shock advised	
CPR Rescuer #4	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0 1 2(3)
Place the other hand on top.	012(3)
Do 30 compressions	0 1 2(3)
Allow the chest to recoil after each compression.	012(3)
Judge's Comments:	
30 20 30 21	
Rescue Breather #4	
Set up personal pocket mask	0123
Place the mask so that it covers the person's mouth and nose.	012(3)

	Page 8
Position the lower rim of the mask between the person's lower lip and chin.  The opposite end of the mask should cover the nose	0 1 2(3) 0 1 2(3)
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0 1 2(3)
Maintain an open airway using head tilt chin lift.	0 1 23
Give two breaths	0 1 2(3)
Watch to see if chest is rising and falling.	0 1 2(3)
Repeat 2 breaths every thirty compressions	012(3)
Judge's Comments:	12
Follow the AED's automated prompts	0123
When the AED prompts you to give a shock the team should:	
Stand clear	<u>0</u> 1 2 3
Say "I'm clear, you're clear, everybody's clear."	<b>6</b> 1 2 3
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	0)1 2 3
Judge's Comments: NO Shock advise	
CPR Rescuer #5	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0123
Place the other hand on top.	013
Do 30 compressions.	0123

Allow the chest to recoil after each compression.	0 1 2(3)
Judge's Comments:	
Rescue Breather #5	
Set up personal pocket mask  Place the mask so that it covers the person's mouth and nose.	0 1 2 (3)
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0123
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	010
Maintain an open airway using head tilt chin lift.	0128
Give two breaths	0123
Watch to see if chest is rising and falling.	0123)
Repeat 2 breaths every thirty compressions	0123
Judge's Comments:  Did not maintain gam	·
enway No consistent	had
Page 9 Merits Subtotal	28

## INTERNATIONAL MINE RESCUE COMPETITION 2016 FIRST AID COMPETITION CPR AED

PINGMEI SEMMA GROUP

#### **Judges Instructions**

Scoring:

0 = not done

1 = poor attempt

2 = needs improvement

3 = excellent meets all requirements

1. Every line must be scored.

2. A score of 0, 1 or 2 must be explained by the judges or the Chief Judge will remove the demerit.

3. When a score of 3 is applied, comments are encouraged

4. If a team runs out of time a score of 0 will apply to remaining actions

#### **Rough Handling**

- 1. Rough handling demerits will be deducted from the total score
- 2. Judges can deduct 1 to 5 points per each patient
- 4. Rough handling demerits will have a maximum of 10 points
- 3. Rough handling deductions must be explained by the judges

#### **Scenario**

The team will transport the patient with the highest priority from the accident scene to the receiving area (sea containers). Upon arrival at the receiving area the patient will be told the patient is vital signs absent.

The team will be required to begin CPR, provide ventilations with a pocket mask and use an AED. A CPR mannequin in a stretcher will be located in the receiving area. When five team members have completed CPR and ventilations the competition will be completed.

# INTERNATIONAL MINE RESCUE COMPETITION 2016 FIRST AID COMPETITION CPR AED

TEAM: PINGMEI SEMMA GROUP	
Team Approach	
1. Captain calls in and provides an update	
Team must update control centre	012
Judge's Comments:	
2. Initial Response A team member	
Assesses patient // 0 Prepares to start CPR	@123 0123
A team member Sets up personal pocket mask	0123
A team member  Gets the AED  Sets up the AED	0128 0128

	Page 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0123
Maintain an open airway using head tilt chin lift.	0123
Give two breaths	0123
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0123
Judge's Comments:	
6. AED arrives Must be started immediately (without delay)	0123
Open and turn on the AED	012(3)
Remove any clothing or objects (including Jewelry) from the person that may come in contact with the pads.	0123
Remove any medical patches, including nitroglycerin, nicotine, or hormone.	0123
Ensure that the chest is dry and free of hair so the pads can stick.	0123
Properly place the AED Pads (follow the diagrams on the pads)	0123
Pads must be at least 2.5cm (1") between pads when placed on the chest.	012(3)
Follow the AED's automated prompts	0123

Page 4 Merits Subtotal

Rescue Breather #2:	Page 5
Set up personal pocket mask	0123
Place the mask so that it covers the person's mouth and nose.	0123
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0123 0123
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0123
Maintain an open airway using head tilt chin lift.	0123
Give two breaths	0123
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0123
Judge's Comments: Same Man doing bath	
Follow the AED's automated prompts	0 1 2③
When the AED prompts you to give a shock the team should:	
Stand clear	0123
Say "I'm clear, you're clear, everybody's clear."	0123
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	0 1 2(3)
Judge's Comments:	

CPR Rescuer #3  CON 4 Off to R	Page 6
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0123
Place the other hand on top.	0123
Do 30 compressions. (Compression depth 5cm (2 inches)	0123
Allow the chest to recoil after each compression.	0123
Judge's Comments: Same Man # 7 doing	The state of the s
Rescue Breather #3	
Set up personal pocket mask	0123
Place the mask so that it covers the person's mouth and nose.	0123
Position the lower rim of the mask between the person's lower lip and chin. The opposite end of the mask should cover the nose	0123 0123
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0123
Maintain an open airway using head tilt chin lift.	01)23
Give two breaths	0123
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0123
Judge's Comments:	

	Page 7
Follow the AED's automated prompts	0123
When the AED prompts you to give a shock the team should:	
Stand clear	0123
Say "I'm clear, you're clear, everybody's clear."	0123
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	0123
Judge's Comments:	
CPR Rescuer #4	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0123
Place the other hand on top.	0123
Do 30 compressions	0123
Allow the chest to recoil after each compression.	0123)
Judge's Comments: Same Guy doing both	
Rescue Breather #4	
Set up personal pocket mask	0123
Place the mask so that it covers the person's mouth and nose.	0123

	Page 8
Position the lower rim of the mask between the person's lower lip and chin.  The opposite end of the mask should cover the nose	0123 0123
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	0123
Maintain an open airway using head tilt chin lift.	0123
Give two breaths	0123
Watch to see if chest is rising and falling.	012@
Repeat 2 breaths every thirty compressions	0 1 23
Judge's Comments:	
Follow the AED's automated prompts	0123
When the AED prompts you to give a shock the team should:	
Stand clear	<b>0</b> 1 2 3
Say "I'm clear, you're clear, everybody's clear."	0123
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	<b>Q</b> 123
Judge's Comments: Machine Stalled	
	<del></del>
CPR Rescuer #5	
Proper hand placement, place the heel of one hand on the idle of the person's chest.	0123
Place the other hand on top.	012③
Do 30 compressions.	0123
	33
Page 8 Merits Subto	tal

Allow the chest to recoil after each compression.	0123
Judge's Comments: Same Man doing both to	24
Rescue Breather #5	
Set up personal pocket mask	0123
Place the mask so that it covers the person's mouth and nose.	0 1 2 3
Place the mask so that it covers the person's mouth and nose. On a position the lower rim of the mask between the person's lower lip and chin. Fire the opposite end of the mask should cover the nose	0 1 2 3 0 1 2 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	012(3)
Maintain an open airway using head tilt chin lift.	0 123
Give two breaths	0123
Watch to see if chest is rising and falling.	0123
Repeat 2 breaths every thirty compressions	0 1 2(3)

Judge's Comments:

Page 9 Merits Subtotal 28

Page 10

PINEMET SENMA

#### **INTERNATIONAL MINE RESCUE COMPETITION 2016**

CASUALTY REPORT

RIGHT	RIGHT RIGHT RIGHT	CUSONE	THE ON
RIGHT PAR TO THE TO TH	RIGHT RIGHT RIGHT		第二名子名
RIGHT D. 左大切地,开放竹子崎 7/1.  (足) 2/1.   国 定 中高伤时 体形配	RIGHT RIGHT		
RIGHT D. 左大似地,开放竹子的 7/1.  (足) 1/2   1/2	RIGHT RIGHT  D. 左大切地、开放好桶 7/1.  (D. 左大切地、开放好桶 7/1.	( )	生言论、有好吸 有脱样的
RIGHT RIGHT	RIGHT D. LEFT (元文化) (元元化) (元文化) (元文化) (元文化) (元文化) (元文化) (元元化) (元元化) (元元化) (元元化) (元元化) (元文化) (元元化) (元元		
RIGHT RIGHT	RIGHT D. LEFT D. 上大切处。开放行而 对 (2) 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0、左小箭、再放粉粉粉
LEFT RIGHT	LEFT RIGHT		
LEFT RIGHT	LEFT RIGHT		
LEFT RIGHT	LEFT RIGHT	RIGHT / )	
LEFT RIGHT	LEFT RIGHT		120月月日日 中高伤时 经联回定
LEFT RIGHT	LEFT RIGHT	Ten his	- 送班
LEFT RIGHT	LEFT RIGHT		
		\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
		) /) /	
		( \/ /	
		) \{ (	
		\ /	<del>der alle</del>
			<u> </u>
		( , , )	
The state of the s		LEFT / \ \ RIGHT	
Ew ( ) hos	Ew ( ) wis		
		5.11	
		an l	
		\ T /	3 <del>-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1</del>
		\ /\ /	
		1 /1 /	
		( \	
		\	
		1///	

CASUALTY	report Survivor 2# (Male)
RIGHT LEFT WIN	Semi - Concious Breathing  PULSE confirmed & naintained  Lest tendament love arm;  other system sove arm;  other system  hanging by the arm  Left Othigh. Open tracture
	Wrapped nok lixed in Position Woulded be pleveted and lixed on the Mored to hospital good leg.
RIGHT	

CASUAL	TY REPORT 34 (Female),
RIGHT	Concious, boss of hearing (Partially  (D. Injury in left ear, minor bleeding  (Wropped)  (D. HFAVY have in Right hand  (Net dress appled, Cool-down)  Sent to hospital with  Slight bandage appled Lofarm.
LEFT RIGHT	

**CASUALTY REPORT** 

	第三名结鱼. 有气况不过分清、竹俊娟
RIGHT	①、左手中理病病、用魔料处理 ②、左手中理病病、用魔料处理 ②至过失了。 多至下。 另 图 1 年晚
LEFT RIGHT	

CASUALTY	(REPORT /# (Male)
RIGHT	Conclus during primary contact  Changing on the sajety harness)  Pain in the Stomach (Bended the knees)  During Lying on the ground Concious Lost  No Par Oral object found  Lost all vitals the box Concious Inturn  After CVK VItal Seems Concious  Sent to holyttal
LEFT RIGHT	

CASUAL	TY REPORT
第一名 ()	为没情,有此信矣有是污。 □服皇B庙座(曲剧孙红雅)
RIGHT	及工程对表中,作为失去是记户中上品物 另外经 为为五种 5分别进行 与代目 (PR、信治 版页、定学的内面打印,
LEFT RIGHT	

Tean #23 Paul Leclar China Pinamei Senma group Jean Arrival 121346 Start Clock 121456 Initial Contact 121456 - Lots of gustons - Want to lower boon 121755 O agknoledgenest - All care on 05 #3 Told by translater "you're find 122045 Down le 122255 - No Lacky move. #11 5 #7 Loosen harness. - (hest only -- Check Stomach - Rt Leg famm, semi sitting Legs after I checked: 1224 59.

- Bonove harness 12 25 31 11 your wjury is not a life thent "translater" (ala Down 7 ABC - Clerk pulse, 122655 Raiss 1-95 W. 122756. Check Renove bost 122908. Blank 6 123018 Steady head Support. - load in Basket @ 1231 10 & Blocket W (over w B laket 1232 54. Check LOC - 123434 told by translator Leaving @ 123616.

175 0B Phil Croka Fryst 25 ind Pinsmei Senma Kan Stated to war as Dows as the war fire one grass ext. check lest # put out hire. one Skip with VI Ham on V3. trasketorto V2 Don't worry ne vill the you 25:20 V2 Seans Jun. 97:52 Ina Ran with Robot Rebind V3. #1 10 12 37:10 Constint's of stonach pain t: can me cut the rope Ance that are ye done 25:35 #1 aske it V2 is the genter year.

In we love the Nost? NO

#1 Par Buch to V3.

25:35 V3 on Board. V2 Calls Par Help. 24:49 \$ 2 Boly dech a V3 24:30 H7 wto coveriall. 15:47 No would treated yet 23:44 T to VD you are like to sky the ung you were
13:40 H/ gring to V2. Calm down
To V2 asing don't Phin #1 Calls for tep (#7). 21:48 \$1 holds V2. 11Ft un son ese fell 21:18 T can you pleas Sleps on the track. 20:56 V2 off the hook. walk him. 20:24 Iman luner V2 5: His a the grand 20:12 About expect a V2

20:00 theges go at the chart. #4 stage with 12 lassers homes. +0.10 1/2 fact T expline to V2 unlet Goon gon. "You Thirry is not dangerous 17:06 V2 ont. \$4 cells for help. #7 15:48 HI 7 lifts V2 Knees. HY holds head 15:34 Bruce indicate let be is Brecking. 15:12 Bruce " Ont out the Lac" Judge helped so they Lit unt it 14:47 2 Bats of a V2 #1 Bring Probet Along V2. & B.B. 19:00 discussion on Storach Brise
13:26 H2 puts Chalet ~ 1/2 19:06 Tasks VI it she a sky due 48 3 Join 12. 17:40 All ren ~ 12 12:30 5 mm lift, on man Slides Phashet. 11:42 Brace complain T the definite of injury. 11:09 2 nd Dunlet a Vo. Inen dech a U3 a d Cativere instelling Splint. 10:11 I man on 12, 3 on 13 this this notes 9.50 Va good to go. #4 Stys with 12 8:26 Druce indiako Mat VI ca Sty Behind 7:49 3 men lift an V3 3 men /ift on V2. 7:40 Brice who to doe. 7:22 Brece Ship! Tasks if it is considered completed 7:09 V2 UP and Jore

James Wilson James Millson Page! august 25/16-TEAM & - CHINA PINGMEI SONMA GROUP 0:15 Toam approach CI.
0:35 #MZ Extinguish fire.
1:01 Say teams or will help CZ when Drill off. 1:10 Dull off 1:36 CZ Cris holp me town. 1:48 # 7 Say to CZ oalm + holdon 2:43 #1 approach C2. 3:00 ask Bruce of art or lower town 318 choose to lower down M1 4:06 CZ left alone.
4:16 CZ cyell help get me town 5:35 C2 still una unattended. 6:06 help get me town; translation sours you we like.
6:30 help get me town; told to wort.
7:10 CZ well help get town.
7:122 the Mi comes of trans. 7:51 Pain in Site Stomach + Ogs, 8:14 Ottempt to pick up + anclip, 8:43 C2, step on track co-operate 9:00 Hold CZ, ask to walk byself, 9:35 CZ Scated legs sown. 9:56 begin CZ asses 10;21 Kerissures CZ MH 19:38 Rassines (2. MH,

11:10 M4 loosen CZ legs. 11:25 CZ UC 11:40 My reassure CZ 17:09 Jour Injury would not threaten your life from translator for MH!
12:44 Cheeks in C2 Notices U/C.
13:06 lay C2 Syrine. M4 holds supero.
13:33 M7 check Vitals. 13:156 # 1 + 7 lift legs to bent Posthon 14:26 Olshs in use AED, Bruce Says broathing 14:51 Unite Stock. 15:12 boots of 15:27 M1 Exerches basket B/B w/ C3 15:58 MI Notice abso. Brewing 16:24 Corer CZ w/ blanket (MZ) 17:00 Check pasket by lifting a man, place planted in blesket. 17:34 5 men Pick up CZ Barket 18:00 Wrap in blanket, use trangular bandage to Reep logs up. 18:110 Translator asking many gulstions about bruise 19:04 use trangular to the chest strapto 220:14 CZ Strengs b/b. Strapped basket, 20:29 MY Chers Condition 21:02 M7 Gotter haness in backet

21:40 Bruce tells only one Cas. 22:10 team shoulded taking two 22:22 Bruces tell make chared 23:40 8/1 23:47 V/S/A.
23:58 Bruce tells same patient 24:12 9/1 Called 24:40 M4 app AED 25:00 Clear, Shock, 2523 Comp & MI 25:42 MI Nent 254P MI 1 Comp 26:07 M / Vent 26:13 MI Comp 26:32 Ml Vent 26:37 MI lomp 26:55 M (Vent 27:08 MI Comp. 27:20 tans said don't touch, tans pointed 2750 M' manto button M4 5:45 28:00MA Comp 2 28:11 Vent M4 26120 MH Comp

28:48 M3 Lomp - MusedPart 29:02 M3 Went 29:10 M3 Comp, 29: 27 M3 Vant 29:36 AM3 AED EVAL 29:48 N/S/A 30:03 M7 Comp, 30126 M7 Yew 1230:37 M7 comp 30152 M 7 Vent 31:02 M7 Comp 31:20 M7 Vent 31:26 M7 Comp 31H7 M7 Vent 31:54 AED EVAL 32:02 N/B/A 32:12 MG Check Vitals 32;24 lomp Mb, 32;44 M& Vent 32:53 M6 Comp 33:12 M6 Vent 33:21 MG Comp 33:42 Mb Vent 33;52 Mle Comp 34 108 Mb Vent 34:26 MH Comp 3454 My Vant,

Page 5 0/5,

35:24 MH Vent. 35:33 MH Congs. 35:33 MH Congs. 36:53 MW Vent 36:03 MH Congs.	
36:22 Rore.	

China Pingmei Senma group Team ' Day 3 translator taking pictures 0:16 @ pt 1 0:27 # 2 has exting 0:38 extin 0:46 fire out 1:00 want drill off 1:12 drill of5 1.24 @ pt 3 # 2,7,1,3 2:10 # 2 supporting arm # 4 supporting bact 3:26 frm free from drill 3:30 pt 3 is sitting pos. 4:22 pt 3 on backboard # 4 @ head 4.44 # 2 secondary 5:05 leg sling out Both wounds exposed. 5:40 = 7 removing boot 6:44 = 2,7,4,3,1 wt pt 3 7:01 # 2 bandaging leg warned 9:01 # 4 applying collar 8:30 # 2 bandaging arm 9:10 # 3 wt pt 3 idle supporting arm 10:10 #7 prep. leg splint

11:08 #1 securing arm splints # 3 supporting arm 13:57=17+3 leg splint 14: 29 # apply "" 14:31e = re applu' 15:01 = 1.3 securing leg splint 16:20 " on-going "

China Pingmei Senma group Day 3 16:34 leg secured on pt 3 16:51 Covering of 3 wt blanket 16:57 Pt 3° lett alone on mexbourd 17:47 packing pt 2 in basket 18:52 jenoue blanket 18:51 tying legs 19:12 #1 putting sling on pt 3 20:07 Blanket and strapping down #1637
21:02 Trying to make decision 3guy lift board 3th on baster
22:15 Bruce stops them only one pt can come up 82.37 Lift up Kill 23:38 Basket down a top (12410D prep AED #701? haos # 1 start CPR + vent 24:39 Pads applyed 25:09 Shock Del- All nunvbers clear - directions unclear 26:31 # 1 comp + vent 27:20 Prep to shock 100 27:37 Shock del All pembers clear 27:46 #3 comp/vent 29:42 No shock # 7 comp/cent 29:58 31: 48 No shock le compoent 34:17 # 4 compleent 36:19 Complete

10F1 Casl Team 23 China Piñg mei Sanma Group Or main -20 46 election to cast will leave 21:45 James Jacevs



## APPENDIX D - HIGH ANGLE ROPE RESCUE SCENARIO

Did not Complete







## **APPENDIX E – THEORY ASSESSMENT**





2016 IMRC - Tuesday, August 23, 2016

Group 1 - 10:30	1st Attempt	x 2 pts	2nd Attempt	x 1 pts	Incorrect	TOTAL SCORE
State Militarized Mine Rescue Squad	9	18	4	4	7	22
Guizhou Yonggui Energy Company	6	12	4	4	10	16
China Pingmei Shenma Group	7	14	2	2	11	16
Shannxi Coal and Chemical Industry	13	26	4	4	3	30
Group 2 - 12:30PM						
Bytom, Weglokos Kraj	14	28	3	3	3	31
Scorpions Team Katowice	7	14	6	6	7	20
Gray Wolfs	7	14	6	6	7	20
KGHM White Eagles	14	28	1	1	5	29
Tara Mine Rescue	12	24	3	3	5	27

2016 IMRC - Wednesday, August 24, 2016

Group 1 - 10:30	1st Attempt	x 2 pts	2nd Attempt	x 1 pts	Incorrect	TOTAL SCORE
Manitoba - Vale Manitoba Operations	8	16	5	5	7	21
Sudbury Basin Cobras, KGHM Sudbury	15	30	2	2	3	32
Vale West Mines, Sudbury	15	30	3	3	2	33
MSHA Mine Rescue Emergency Unit 1	15	30	2	2	3	32
Group 2 - 12:30PM						
Emercom of Russia	10	20	7	7	3	27
JSC < <suek>&gt;</suek>	8	16	7	7	5	23
Singareni	10	20	6	6	4	26
Coal India Ltd.	8	16	5	5	7	21
Vinacomin Team	8	16	5	5	7	21

2016 IMRC - Thursday, August 25, 2016

Group 1 - 10:30	1st Attempt	x 2 pts	2nd Attempt	x 1 pts	Incorrect	TOTAL SCORE			
HPB, a.s. Slovakia	13	26	3	3	4	29			
Peabody Energy Wambo Coal	10	20	5	5	5	25			
Goldcorp Americas	16	32	1	1	3	33			
Quebec - Goldex Mine Agnico Eagle	12	24	4	4	4	28			
Compass Minerals - Goderich Mines	17	34	1	1	2	35			
Group 2 - 12:30PM									
Saskatoon, Cameco Mcarthur River	12	24	3	3	5	27			
Kirkland Lake Gold	15	30	3	3	2	33			
Columbia Coal Company	6	12	2	2	12	14			
Fiebre de Oro	6	12	6	6	8	18			

Standings	Teams	Score	%	score out of 10	_
1	Compass Minerals - Goderich Mines	35	87.5%	8.75	
2	Vale West Mines, Sudbury	33	82.5%	8.25	
3	Goldcorp Americas	33	82.5%	8.25	
4	Kirkland Lake Gold	33	82.5%	8.25	_
5	Sudbury Basin Cobras, KGHM Sudbury	32	80.0%	8	_
6	MSHA Mine Rescue Emergency Unit 1	32	80.0%	8	_
7	Bytom, Weglokos Kraj	31	77.5%	7.75	rewrote
8	Shannxi Coal and Chemical Industry	30	75.0%	7.5	
9	KGHM White Eagles	29	72.5%	7.25	rewrote
10	HPB, a.s. Slovakia	29	72.5%	7.25	_
11	Quebec - Goldex Mine Agnico Eagle	28	70.0%	7	_
12	Tara Mine Rescue	27	67.5%	6.75	_
13	Emercom of Russia	27	67.5%	6.75	_
14	Saskatoon, Cameco Mcarthur River	27	67.5%	6.75	_
15	Singareni	26	65.0%	6.5	_
16	Peabody Energy Wambo Coal	25	62.5%	6.25	_
17	JSC < <suek>&gt;</suek>	23	57.5%	5.75	_
18	State Militarized Mine Rescue Squad	22	55.0%	5.5	rewrote
19	Manitoba - Vale Manitoba Operations	21	52.5%	5.25	_
20	Coal India Ltd.	21	52.5%	5.25	_
21	Vinacomin Team	21	52.5%	5.25	
22	Scorpions Team Katowice	20	50.0%	5	
23	Gray Wolfs	20	50.0%	5	
24	Fiebre de Oro	18	45.0%	4.5	
25	Guizhou Yonggui Energy Company	16	40.0%	4	rewrote
26	China Pingmei Shenma Group	16	40.0%	4	rewrote
27	Columbia Coal Company	14	35.0%	3.5	

What is the PRIMARY function of the Counterlung or Breathing bag?

- a. Assists the wearer in breathing when he gets tired
- b. Collection point of Oxygen enriched diluent
- c. Allows the breathing loop to expand and or contract when the user breathes
- d. Allows for the collection of water vapour through the use of a water trap

The methods of extinguishing of a wet chemical extinguisher are?

Primary \_\_\_\_\_\_Secondary\_\_\_\_

- a. Cooling
- b. Chain inhibition
- 1- c. Oxygen depletion
- 2- d. Vapour suppression
- e. Heat transfer cooling
- f. Cooling

Can we click and drag these into place like you did with the ropes question?



What is the stream reach of this fire extinguisher?

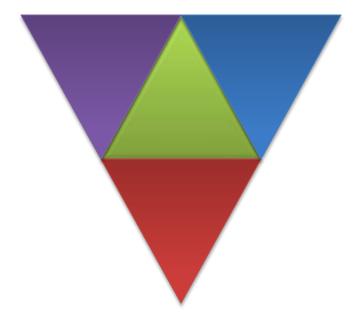
- a. 30-40 ft (9.14-12.19 m)
- b. 4-6 ft (1.22-1.83 m)
- c. 3-8 ft (.91-2.44 m)
- d. 5-20 ft (1.52-6.09 m)

The temperature at which sufficient vapours are being generated to sustain chemical reaction is known as what?

- a. flash point
- b. lower flammable limit
- c. fire point
- d. autoignition temperature
- e. flashover

The chemical decomposition of a solid material by heating is known as?

- a. vaporization
- b. combustion
- c. endothermic
- d. pyrolosis



The four components of the fire tetrahedron are?

- a. Combustion, chemical reaction, oxidizing agent, heat
- b. Radiation, chemical reaction, oxidizing agent, heat
- c. Reducing agent, chemical reaction, oxidizing agent, heat
- d. Ignition, chemical reaction, oxidizing agent, heat



This point in the stream is known as the \_\_\_\_\_?

- a. low pressure point
- b. breakover point
- c. handline
- d. hydraulic maximum

What chemical reaction is taking place here?

a. Ca (OH)2+ CO ←→ CaCO2+ H2O

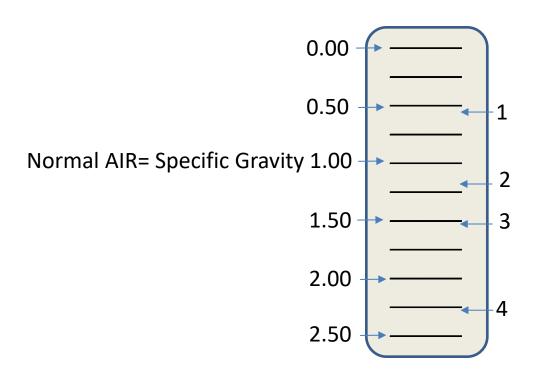


b. Ca (OH)2+ CO2 ←→ CaCO3+ H2O

c. NaHCO3+ CO2 ← → NaC2O3+ H2O

d. NaHCO3+ CO ←→ 2CO2+ NaOH

**Dräger**safety



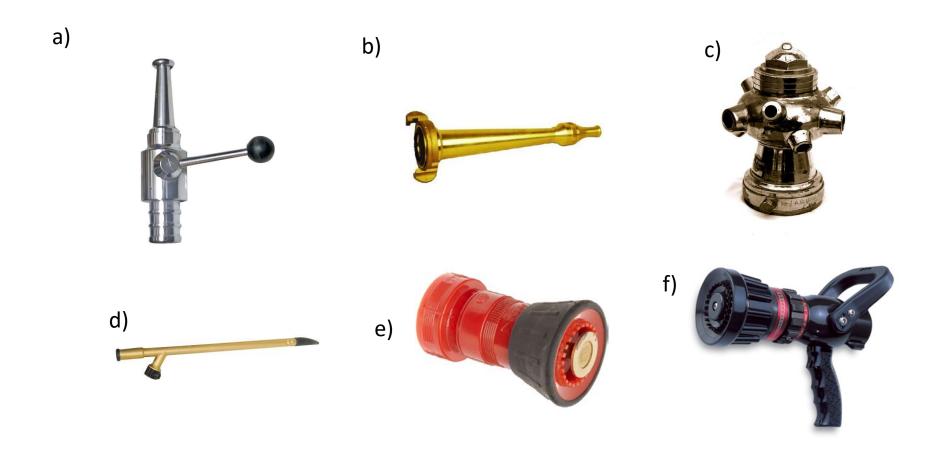
a. 
$$1 = CH4$$
,  $2 = NO2$ ,  $3 = SO2$ ,  $4 = H2S$ 



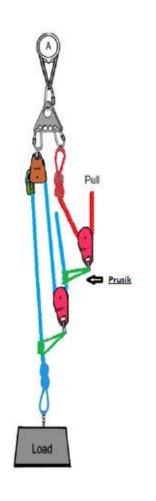
# What type of nozzle is this?

- a. Crestar
- b. Rockwood
- c. Bresnan
- d. Swivel

Which one of these is a cellar nozzle?



What is the mechanical advantage of this setup?



a. 3:1

b. 5:1

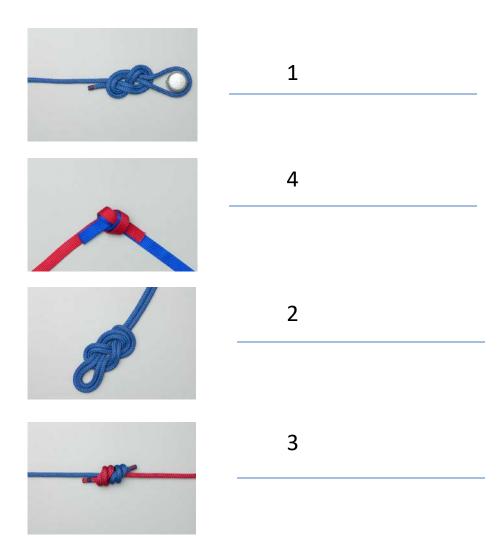
c. 6:1

d. 2:1

e. 4:1

f. 9:1

# Place these knots in order from strongest to weakest



Which one of these is NOT considered a Self Contained Breathing apparatus?

- a. Oxygen or Self Generating
- b. Air Purifying/Respirator
- c. Oxygen rebreather
- d. Pressure Demand



What type of nozzle is this?

- a) Basic fog nozzle
- b) Constant pressure nozzle
- c) constant gallonage
- d)constant/select nozzle

Which is not a method that firefighting foam uses to extinguish fires?

- a) separating
- b) cooling
- c) smothering
- d) evaporation
- e) penetrating

What is the boiling point and melting point of Methane Gas CH4?

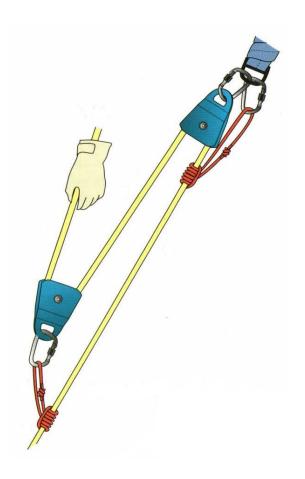
- a) 100 °C (212 °F) 47 °C (117 °F)
- b) -162 °C (-260 °F) -182.5 °C (-297 °F)
- c) 265 °C (509 °F) 97.4 °C (207 °F)
- d) -15 °C (5 °F) -55 °C (-67 °F)

Who successfully tested their prototype of a flame safety lamp in 1816?

- a) Sir Edmund Hillary
- b) Sir John A. MacDonald
- c)Sir Humphry Davy
- d) Sir William Clanny

What is the name of this rope configuration?

- a) Piggy back ratchet system
- b) 3:1 Z-rig
- c) 2:1 raising system
- d) 5:1 Block and tackle



# Match the safety lamp to its proper name









The Clowes Lamp

The Marsaut lamp

The Clanny Lamp

The Stephenson Lamp

Question 1

## What is the name of this lamp



## Theory - Retest

- a. The Davy Lamp
- b. The Stephenson Lamp
- c. The Clanny Lamp
- d. The Mueseler Lamp
- e. The Marsaut Lamp
- f. The Clowes Hydrogen Lamp
- g. The Electric Cap Lamp
- h. The Flame-safety Lamp
- i. Garforth Lamp

At what stage of fire development does backdraft occur?

- a. decay stage
- b. fully developed stage
- c. growth stage
- d. incipient stage

In actual operation fire stream angles between \_\_\_\_ and \_\_\_\_ provide maximum Effective horizontal reach?

- a. 50-54 degrees
- b. 40-45 degrees
- c. 27-32 degrees
- d. 30-34 degrees



Import-Export

What is guaranteed to be created with chemical oxygen breathing apparatus?

- a. heat
- b. CO
- c. KOH
- d. water

# Description

- SG = 1.191
- Colour = None
- Taste = None
- Odour = Sulfur
- Explosive Range = 4.3-45%

### Gas

- a. Acetylene
- b. Hydrogen Sulfide
- c. Nitrogen
- d. Ammonia
- e. Sulfur Dioxide

Most fog nozzles are designed to operate at \_\_\_\_\_?

- a. 75 psi (517 kPa)
- b.100 (689 kPa)
- c. 150 (1034 kPa)
- d. 250 (1724 kPa)

What is the breaking strength of a Pro series single pulley?

- a. 38 kN
- b. 13.5 kN
- c. 72 kN
- d. 57 kN

# What is the breaking strength of a rescue rack?



- a. 32 kN
- a. 13.5 kN
- b. 38 kN
- d. 64 kN

Which statement best describes the chemical chain reaction that produces heat and flame?

- a. Rapid Oxidation of fuel
- b. Material unites with Oxygen rapidly
- c. Rapid Chain Reaction
- d. Chemical Reaction

When deploying Foam which one of the following best describes its effect on a CLASS A Fire?

- a. Separating the fuel and the fire
- b. Cooling the Temperature of the Fire
- c. Smothering and preventing release of Flammable vapours
- d. Penetrating due to low surface tension of agent

In an Oxygen Rebreather Apparatus which of the following systems would control the flow of 100% Oxygen from the Cylinder to the wearer?

- a.The Oxygen Pressure/Regulator/Valve/Pnuematics Sensor/Alarm system
- b. The Counterlung/hoses/canister
- c. Facemask
- d. Demand and Pressure release Valves

Which of the following chemicals should not be used on a Class B and C Fire?

- a. Monoammonium phosphate
- b. Carbon Dioxide
- c. Sodium Chloride
- d. Sodium Bicarbonate
- e. Potassium Chloride
- f. Potassium Bicarbonate

Which Gas will produce the following symptoms? At Concentrations of 7% to 10% this gas will cause dizziness, headache, visual and hearing dysfunction and unconsciousness within a few minutes to an hour.

- A. NO<sub>2</sub>
- B. 0<sub>2</sub> Deficiency
- $C. C_2H_4$
- D. CO<sub>2</sub>
- E. H<sub>2</sub>

In a classic rebreather apparatus which of the following parts would NOT be found in the system design?

A Mouthpiece

B O<sub>2</sub> Cylinder

C Breathing Bag or Lung

D. Demand Valve (Demand valves or regulators will be found on Positive Pressure Demand apparatus only)

E. Over Pressure Valve

Which of these is not a rope rescue anchor system?

- a) Contingency
- b) Load distributing
- c) Load sharing
- d) Load reducing
- e) Simple
- f) Two point load

Which is not an alternate term for a spray nozzle?

- a) fog nozzle
- b) adjustable nozzle
- c) smooth bore nozzle
- d) adjustable fog nozzle

Which is not a method that firefighting foam uses to extinguish fires?

- a) separating
- b) cooling
- c) smothering
- d) evaporation
- e) penetrating

This gas is slightly lighter than air. It is flammable and explosive in mixtures with air in concentrations between 12.5 and 74 %. It is toxic because it blocks the ability of the hemoglobin in the blood to carry Oxygen from the lungs to the muscles and other tissue in the human body.

- a) CO
- b) CH4
- c) CO2
- d) H2O

At what concentration will H2S lead to eye damage?

- a) 10- 20 ppm
- b) 50-100 ppm
- c) 320-530 ppm
- d) 800ppm

When using ropes both for training and rescue what is the minimum safety factor required?

- a) 50:1
- b) 25:1
- c) 10:1
- d) 15:1

Theory rest (Answer Sheet)
1) What Type of Safety Lamp is this?
a. The Davy Lamp
b. The Stephenson Lamp
c. The Clanny Lamp
*d. The Mueseler Lamp
e. The Marsaut Lamp
f. The Clowes Hydrogen Lamp
g. The Electric Cap Lamp
h. The Flame-safety Lamp
i. Garforth Lamp
2) The methods of extinguishing of a wet chemical extinguisher are?
a) Cooling
b)Chain inhibition
*1- c) Oxygen depletion
d) Heat transfer cooling
*2- e) Vapour suppression
f) Cooling
3) What is the stream reach of this fire extinguisher?
a. 30-40 ft (9.14-12.19 m)
b. 4-6 ft (1.22-1.83 m)
*c. 3-8 ft (.91-2.44 m)

d. 5-20 ft (1.52- 6.09 m)

4) At what stage of fire development does backdraft occur?
* a) decay stage
b) fully developed stage
c) growth stage
d) incipient stage
5) The temperature at which sufficient vapours are being generated to sustain chemical reaction is known as what?
a) flash point
b) lower flammable limit
*c) fire point
d) autoignition temperature
e) flashover
6) The chemical decomposition of a solid material by heating is known as?
a) vaporization
b) combustion
c) endothermic
*d) pyrolosis
7) The four components of the fire tetrahedron are?
a) Combustion, chemical reaction, oxidizing agent, heat
b) Radiation, chemical reaction, oxidizing agent, heat
* c) Reducing agent, chemical reaction, oxidizing agent, heat
d) Ignition, chemical reaction, oxidizing agent, heat

8) This point in the stream is known as the?
a) low pressure point *b) breakover point c) handline d) hydraulic maximum
9) What chemical reaction is taking place here?
a) Ca (OH)2+ CO ←→ CaCO2+ H2O
*b) Ca (OH)2+ CO2 ←→ CaCO3+ H2O
c) NaHCO3+ CO2 ←→ NaC2O3+ H2O
d) NaHCO3+ CO ←→ 2CO2+ NaOH
10) Place in order of SG from lowest to highest
a) 1= CH4, 2= NO2, 3= SO2, 4= H2S
b) 1= NO2, 2= CH4, 3= H2S, 4= NO2
* c) 1= CH4, 2= H2S, 3=NO2, 4=SO2
d) 1= CH4, 2= NO2, 3= H2S, 4=SO2
11) In actual operation fire stream angles between and provide maximum Effective horizontal reach?
a) 50-54 degrees
b) 40-45 degrees
c) 27-32 degrees
*d) 30-34 degrees
12) What type of nozzle is this?
a) Crestar
b) Rockwood

*c) Bresnan
d) Swivel
13) What is guaranteed to be created with chemical oxygen breathing apparatus?
*a) heat
b) CO
с) КОН
d) water
14) What are the limiting factors that affect the reach of a fire stream?
*a)gravity
*b)water velocity
c)water temperature
*d)fire stream pattern
e)air temperature
*f)wind
*g)water droplet friction with air
h)solids content of water
15)What is this gas described here:
<ul> <li>SG = 1.191</li> <li>Colour = None</li> <li>Taste = None</li> <li>Odour = Sulfur</li> <li>Explosive Range = 4.3-45%</li> <li>a) Acetylene</li> <li>*b) Hydrogen Sulfide</li> </ul>
c) Nitrogen

d) Ammonia

e) Sulfur Dioxide
16) Most fog nozzles are designed to operate at?
a) 75 psi (517 kPa)
*b)100 (689 kPa)
b) 150 (1034 kPa)
d) 250 (1724 kPa)
17) Which one of these is a cellar nozzle?
a)
b)
*c)
d)
e)
f)
18) What is the mechanical advantage of this setup?
a) 3:1
b) 5:1
*c) 6:1
d) 2:1
e) 4:1
f) 9:1
19) What is the breaking strength of a Pro series single pulley?
* a) 38 kN
b) 13.5 kN
c) 72 kN
d) 57 kN
20) Place these knots in order from strongest to weakest
a) 1,2,4,3
21) What is the breaking strength of a rescue rack?

a)32 kN
---------

- \* b)13.5 kN
  - a) 38 kN
  - d) 64 kN
- 22) Which one of these is NOT considered a Self Contained Breathing apparatus?
- a) Oxygen or Self Generating
- \*b) Air Purifying/Respirator
- c) Oxygen rebreather
- d) Pressure Demand
- 23) Which statement best describes the chemical chain reaction that produces heat and flame?
- a) Rapid Oxidation of fuel
- \* b) Material unites with Oxygen rapidly
- c) Rapid Chain Reaction
- d) Chemical Reaction
- 24) When deploying Foam which one of the following best describes its effect on a CLASS A Fire?
  - a) Separating the fuel and the fire
  - b) Cooling the Temperature of the Fire
  - c) Smothering and preventing release of Flammable vapours
- \*d) Penetrating due to low surface tension of agent
- 25) In an Oxygen Rebreather Apparatus which of the following systems would control the flow of 100% Oxygen from the Cylinder to the wearer?
- \*a)The Oxygen Pressure/Regulator/Valve/Pnuematics Sensor/Alarm system
- b) The Counterlung/hoses/canister
- c) Facemask
- d) Demand and Pressure release Valves
- 26) What is the PRIMARY function of the Counterlung or Breathing bag?

- a) Assists the wearer in breathing when he gets tired
- b) Collection point of Oxygen enriched diluent
- \*c) Allows the breathing loop to expand and or contract when the user breathes
- d) Allows for the collection of water vapour through the use of a water trap
- 27) Which of the following chemicals should not be used on a Class B and C Fire?
- a)Monoammonium phosphate
- b)Carbon Dioxide
- \*c) Sodium Chloride
- d) Sodium Bicarbonate
- e) Potassium Chloride
- f) Potassium Bicarbonate
- 28) Tests for Methane (CH<sub>4</sub>) must be made:
- \* a) At the back or roof
- b) At chest height
- c) Below the waist
- d) Near the floor
- 29) Which Gas will produce the following symptoms? At Concentrations of 7% to 10% this gas will cause dizziness, headache, visual and hearing dysfunction and unconsciousness within a few minutes to an hour.
- a) N0<sub>2</sub>
- b)0<sub>2</sub> Deficiency
- c) C<sub>2</sub>H<sub>4</sub>
- \*d) CO<sub>2</sub>
- e) H<sub>2</sub>
- 30) In a classic rebreather apparatus which of the following parts would NOT be found in the system design?
  - a) Mouthpiece
  - b) O<sub>2</sub> Cylinder
  - c) Breathing Bag or Lung
  - \*d) Demand Valve

- e) Over Pressure Valve
- 31) Which of these is not a rope rescue anchor system?
  - a) Contingency
  - b) Load distributing
  - c) Load sharing
  - \*d) Load reducing
  - e) Simple
  - f) Two point load
- 32) Which is not an alternate term for a spray nozzle
- a) fog nozzle
- b) adjustable nozzle
- \*c) smooth bore nozzle
- d) adjustable fog nozzle
- 33) What type of nozzle is this?
- a) basic fog nozzle
- b) constant pressure nozzle
- \*c) constant gallonage nozzle
- d)constant/select nozzle
- 34) What is the most common nozzle control valve?
- a) rotary control valve
- b) slide valve
- \*c) ball valve
- d) butterfly valve
- 35) Which is not a method that firefighting foam uses to extinguish fires?
- a) separating
- b) cooling
- c) smothering
- \*d) evaporation
- e) penetrating
- 36) Which is not a method that firefighting foam uses to extinguish fires?
- a) separating

- b) cooling
- c) smothering
- \*d) evaporation
- e) penetrating
- 37) What is the boiling point and melting point of Methane Gas CH4?
  - a) 100 °C (212 °F) 47 °C (117 °F)
- \*b) -162 °C (-260 °F) -182.5 °C (-297 °F)
- c) 265 °C (509 °F) 97.4 °C (207 °F)
- d) -15 °C (5 °F) -55 °C (-67 °F)
- 38) Who successfully tested their prototype of a flame safety lamp in 1816?
  - a) Sir Edmund Hillary
  - b) Sir John A. MacDonald
- \* c)Sir Humphry Davy
  - d) Sir William Clanny
- 39) This gas is slightly lighter than air. It is flammable and explosive in mixtures with air in concentrations between 12.5 and 74 %. It is toxic because it blocks the ability of the hemoglobin in the blood to carry Oxygen from the lungs to the muscles and other tissue in the human body.
- \* a) CO
  - b) CH4
  - c) CO2
  - d) H2O
- 40) At what concentration will H2S lead to eye damage?
- a) 10- 20 ppm
- \*b) 50-100 ppm
- c) 320-530 ppm
- d) 800ppm
- 41) When using ropes both for training and rescue what is the minimum safety factor required?
- a) 50:1

- b) 25:1
- \*c) 10:1
- d) 15:1
- 42) What is the name of this rope configuration?
- a) Piggy back ratchet system
- \*b) 3:1 Z-rig
- c) 2:1 raising system
- d) 5:1 Block and tackle



# APPENDIX F – TECHNICIAN BENCHING EQUIPMENT MAINTENANCE COMPETITION





\*\*\*Battery Expires January 16, 2017; Soda Lime Expires November 23, 2016\*\*\*

1.16		11.23
Technician's Report	Result and Units	Defects
Function Test Date (month as Jan – Dec)	8/23/20/h	我都的 する twist of head
First initial, last name of technician	TAME DE	TRAZZ (ach of couch
Visual Inspection (incl. belt & lanyard)	\ \ \	TRATE (ach of crush wrong set of the
O <sub>2</sub> Cylinder Hydrostatic Test	94/13	力事编码 lack of compen
Face Mask Inspection	7/	中五壁町打 wish of ne ye
Low Pressure Warning	0.9 0.5 mbax	的形拟力運图 missing on
Inhalation Valve	V	7 THERE & Cack of whee dis
Exhalation Valve		月到三十分了 cracked so
Drain Valve	19m241	FAR DE missing oning Pi
Positive Pressure Leak Test	7.4 mbli	
Pressure Relief Valve Activation	14:3	
High Pressure Leak Test	<b>\</b>	
Constant Dosage Rate	1.97 Vniz	
Minimum Valve Activation Pressure	Val. gnak	
Bypass Valve	HAS V	
Cylinder Pressure	78710bal	
Low Pressure Alarm	#8710baV 950ha	
Battery Test		
Date battery to be replaced	1.16/2017	
Date soda lime to be replaced (6 months)	11/23.2016	

TECHNICIAN SIGNATURE:

fring mel 10

## 2016 International Mine Rescue Competition

1.	Locate twisted buckle on head strap of face mask	(2)
2.	Repair twisted buckle on Head strap of facemask	12) buckled bu
3.	Locate missing gasket on pressure relief valve	(2)
4.	Install proper gasket on pressure relief valve	(2)
5.	Locate missing gasket on reducer where bottle attaches	(2)
6.	install proper gasket on reducer	(2)
7.	Locate missing anti-crush rings	(2)
8.	Install 2 anti-crush rings	(2)
9.	Locate missing filter ion switch box	(2) the Re Gound
10.	Install filter on switch box	(2) not uplace
11.	Locate missing valve in pressure relief valve	(2)
12.	Install valve in pressure relief valve	(2)
13.	Locate leak in soda lime canister	(2)
14.	Replace parts from bad canister, pack and Install new canister	(2) _ / ~ note ove
15.	Locate high dosage caused by missing gasket under minimum valve lever	(2) Z -
16.	Install proper gasket and tighten minimum valve lever	(2)
17.	Changing parts (cylinder, bag, cooler, hoses, mask,) without verification apply 1 demerit per item	
_	70:30	D PAR
Time:		

Judge: Bruce Colly

Judges Demerit Sheet for Incorrect Units	1 Demerit for Wrong Unit	Defects	
Function Test Date (month as Jan – Dec)			
First initial, last name of technician		12	
Visual Inspection (incl. belt & lanyard)	1	No kelt/layard	_
O <sub>2</sub> Cylinder Hydrostatic Test			-
Face Mask Inspection			-
Low Pressure Warning			
Inhalation Valve			_
Exhalation Valve	/		
Drain Valve			-
Positive Pressure Leak Test		-	7
Pressure Relief Valve Activation	6.	Nount	
High Pressure Leak Test			
Constant Dosage Rate	ä	1	
Minimum Valve Activation Pressure			
Bypass Valve	THE M		-order
Cylinder Pressure			
Low Pressure Alarm			
Battery Test			
Date battery to be replaced	/		
Date soda lime to be replaced (6 months)			

7 48

- Cilling of christer + missing schan

Sdemonits

### **Technician Summary Sheet**

TECHNICIAN: You Wineus #8	DATE:
TECHNICIAN: Young Weimeng #8 TEAM: Lina Pingwei Shenma Group	Aug 23 /16
	DEMERIT CHARGED;
GENERAL PROBLEM	1 94 94 D.D.
	5 4 9 405
FUNCTION TESTS	BC
TIME	20:39
INCORRECT UNITS USED	1
DEFECTS NOT DOCUMENTED	3
TOTAL DEMERITS	10 44 40
SIGNATURE OF JUDGE	
COMMENTS:	

YANG WEIMENG

DINGWEI SHEMNA

BRUCE TURNED

POLEC SLAPPY

CHOCO

crucia

## 2016 International Mine Rescue Competition

1.	Locate twisted buckle on head strap of face mask	(2)
2.	Repair twisted buckle on Head strap of facemask with of steam.	(2) 2 1
3.	Locate missing gasket on pressure relief valve	(2)
4.	Install proper gasket on pressure relief valve	(2)
5.	Locate missing gasket on reducer where bottle attaches	(2)
6.	Install proper gasket on reducer	(2)
7.	Locate missing anti-crush rings	(2)
8.	Install 2 anti-crush rings Dance Office Breathing	(2)
9.	Locate missing filter ion switch box	(2)
10.	Install filter on switch box	(2)
11.	Locate missing valve in pressure relief valve	(2)
12.	Install valve in pressure relief valve	(2)
13.	Locate leak in soda lime canister	(2)
14.	Replace parts from bad canister, pack and Install new canister when installed	(2)
15.	Locate high dosage caused by missing gasket under minimum valve lever	(2) THE Z
16.	Install proper gasket and tighten minimum valve lever	(2)
17.	Changing parts (cylinder, bag, cooler, hoses, mask,) without verification apply 1 demerit per item	- N
	Total Demerits	red 5
Time:_	20:39	V
Indees	SI Re	

Judges Demerit Sheet for Incorrect Units	1 Demerit for Wrong Unit	Defects
Function Test Date (month as Jan – Dec)	_	
First initial, last name of technician	-	
Visual Inspection (incl. belt & lanyard)	1	.1
O <sub>2</sub> Cylinder Hydrostatic Test		
Face Mask Inspection	_	
Low Pressure Warning		
Inhalation Valve		
Exhalation Valve		01
Drain Valve		
Positive Pressure Leak Test		
Pressure Relief Valve Activation	1	
High Pressure Leak Test		
Constant Dosage Rate BY PIXI 60		
Minimum Valve Activation Pressure		
Bypass Valve or or or or or	*	
Cylinder Pressure	-	
Low Pressure Alarm		24 /
Battery Test	_	
Date battery to be replaced		
Date soda lime to be replaced (6 months)		



## **Technician Summary Sheet**

TECHNICIAN: YANG WEIMENG # DATE:						
TEAM: PINGMEI SHEPOME GROUP CHINA	2016					

	DEMERIT CHARGED;
GENERAL PROBLEM	201
FUNCTION TESTS	海 ·
	NO.
TIME	7
	20,3
INCORRECT UNITS USED	
DEFECTS NOT DOCUMENTED	3
TOTAL DEMERITS	
	HO HO
SIGNATURE OF JUDGE	
El Ben	

COMMENTS:				7	¥),			
	* 11.				· ·			
						-		_



### **END OF DOCUMENT**



