



2020 International Mines Rescue Contest September 13th-15th 2022 Underground Mine Simulation Final Score Sheet

TEAM NAME: Singareni Colleries

TEAM NUMBER: 2

DATE OF COMPETITION: 9/15/22

TOTAL MERITS: 199

MINUS ANY DEMERITS: 0

TOTAL MINE RESCUE SCORE: 199









IMRC USA 2022

Beaver, WV September 9-16, 2022

Team Name: Singareni Colleries			
Team number: 2			
Team clock (working time) at completion of problem: 75:00			
Timekeeper's watch time at completion of problem: 75:00			
Was there a team clock failure or problem? : YES : NO			
If answer is "yes" remarks:			
Initial apparatus test completion time: 00:43			
1 st 20-minute test completion time: 19:35			
2 nd 20-minute test completion time: 38:20			
3 rd 20-minute test completion time: 56:40			
4 th 20-minute test completion time:			
5 th 20-minute test completion time:			
6 th 20-minute test completion time:			
Apparatus checks			
• Rule 3 • Team completes all 20-minute apparatus checks as required. 3-Team met all requirements for the task			
3 Points earned			
Apparatus checks			
 The team or groups conduct proper apparatus examinations. 			
3-Team met all requirements for the task			
3 Points earned			



Surface

•	Rule	1

- Team has on all required PPE.
- 3-Team met all requirements for the task
- 3 Points earned

Surface

- Rule 5
 - Team visually checks the communication/radios for safe operating condition & battery level before going underground.
 - 1-Team did not check all radios provided to them for safe operating conditions & battery
 - 1
- Points earned
- Stretcher
 - One of the groups takes the stretcher inby the Fresh Air Base and keeps it with them as the groups explore the mine.
 - 3-Team met all requirements for the task
 - **'**3
- Points earned

Team stops and tasks

- 1. Mine opening-----(gas readings 0.0%Ch4, 500ppmCO, 20.0%O2, 0.00ppmNO2)
 - Rule 7 Team checks gas concentrations at all openings to areas to be explored.
 - 3-Team met all requirements for the task
 - <u>`</u>3
- Points earned
- 2. Spad#103-----(gas readings 0.0%Ch4, 500ppmCO, 20.0%O2, 0.00ppmNO2)
 - Rule 8 Team checks gas concentration at all intersections encountered.
 - 3-Team met all requirements for the task
 - `3
- Points earned
- 3. Spad#102-----(gas readings 0.0%Ch4, 500ppmCO, 16.5%O2, 0.00ppmNO2)
 - Rule 8 Team checks gas concentration at all intersections encountered.
 - 3-Team met all requirements for the task
 - 3
- Points earned

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Singareni Colleries



- Rule 6 Team report IDLH atmosphere to the IC/BO or assistant 16.5%O2. 3-team met all requirements for the task Points earned Rule 2 Team dons' apparatuses if not already, first encounter of an IDLH atmosphere 16.5%02. 3-Team met all requirements for the task Points earned Rule 4 Team conducts an apparatus check, first encounter with a respiratory contamination (IDLH) 16.5%O2. 3-Team met all requirements for the task 3 Points earned 4. X-cut 101 to 102----(gas readings 0.0%Ch4, 500ppmCO, 16.5%O2, 0.00ppmNO2) Rule 14 Team block/chock wheel of scoop prior to any team member passing scoop. 3-Team met all requirements for the task 3 Points earned Rule 9 Team checks gas concentration prior de-energizing scoop. 3-Team met all requirements for the task 3 Points earned Rule 15 Team de-energize scoop prior to any team member passing scoop. 3-Team met all requirements for the task Points earned 5. Spad#101-----(gas readings 0.0%Ch4, 500ppmCO, 16.5%O2, 0.00ppmNO2) Rule 8 Team checks gas concentration at all intersections encountered. 3-Team met all requirements for the task 3 Points earned
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6.	 Spad#100(gas readings 0.0%Ch4, 500ppmCO, 16.5%O2, 0.00ppmNO2) Rule 8 Team checks gas concentration at all intersections encountered. 		
	3-Team met all requirements for the task		
	Points earned		
	 Rule 26 The team will now explore the areas of the lower-level smoke free in 2, 2, and 2 groups. 		
	3-Team met all requirements for the task		
	Points earned Points earned Points earned		
	 Rule 28 each group will now report to IC/BO their intentions to stop or advance. 3-The team met all requirements for the task 		
	•		
	 Points earned Rule 28 groups must stay within one crosscut of an adjacent group when exploring. 		
	3-Team met all requirements for the task		
	Points earned		
7.	 Spad#104(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2) Rule 8 Team checks gas concentration at all intersections encountered. 		
	3-Team met all requirements for the task		
	9 Points earned		
	• Rule 14 Group block/chock wheel prior to any group member passing mini-trax.		
	3-Team met all requirements for the task		
	Points earned		
8.	 Spad#105(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2) Rule 8 Team checks gas concentration at all intersections encountered. 		
	3-Team met all requirements for the task		
	3 Points earned		



Rule 25 team must come together to fight the fire. 3-The team met all requirements for the task 3 Points earned Rule 16 Team members cannot pass the location of the fire in entry encountered prior to extinguishing. 3-Team met all requirements for the task Points earned Rule 22 Team verbally indicates checking for loose roof/ground at the fire location prior to and after putting out, and each time returning through fire area. 3-Team met all requirements for the task Points earned Rule 10 check gas concentration at fire prior to extinguishing and after fire is put out. 3-Team met all requirements for the task 3 Points earned Rule 27 after fire is extinguished the team must immediately return to groups of 2's for further explorations. 3-Team met all requirements for the task 3 Points earned 9. Spad#106-----(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2) Rule 8 Team checks gas concentration at all intersections encountered. 3-Team met all requirements for the task Points earned $\underline{\text{Rule 14}}$ block/chock wheel prior to group passing mantrip. 3-Team met all requirements for the task 3 Points earned



10. Spad#107(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2)
Rule 8 Team checks gas concentration at all intersections encountered.
3-Team met all requirements for the task
Points earned 11. Spad#108(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2)
• Rule 8 Team checks gas concentration at all intersections encountered.
3-Team met all requirements for the task
3 Points earned
12. Spad#109(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2)
 Rule 8 Team checks gas concentration at all intersections encountered.
3-Team met all requirements for the task
Points earned
13. Spad#110(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2)
 Rule 8 Team checks gas concentration at all intersections encountered.
3-Team met all requirements for the task
3 Points earned
 Points earned Rule 24 team member must verbally indicate checking loose roof/ground at the location of caved/rock fall.
3-Team met all requirements for the task
Points earned 14. Spad#111(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2) • Rule 8 Team checks gas concentration at all intersections encountered. 3-Team met all requirements for the task
3 Points earned



Rule 24 team member must verbally indicate checking loose roof/ground at the location of caved/rock fall. 3-Team met all requirements for the task Points earned 15. Spad#112----(gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2) $\underline{\text{Rule 8}}$ Team checks gas concentration at all intersections encountered. 3-Team met all requirements for the task Points earned 16. Rescue chamber--- (gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2) Rule 30 team must enter RC when reaching 111 & 112 intersections. 3-Team met all requirements for the task Points earned $\underline{\text{Rule 25}}$ team must come together when entering the RC. 3-Team met all requirements for the task Points earned Rule 11 team member entering RC must check gas concentration inside airlock. 3-Team met all requirements for the task 3 Points earned Rule 29 member entering RC must purge to clear the IDLH. 3-Team met all requirements for the task (3 Points earned



Rescue chamber

• Rule 12

1st gas check in airlock, gas readings 0.0%Ch4, 1250ppmCO, 16.5%O2, 0.00ppmNO2), 2nd gas check in airlock after purging gas readings 0.0%Ch4, 0.0ppmCO, 20.9%O2, 0.00ppmNO2,

3rd gas test inside inner door <u>(gas readings 0.0%Ch4, 0.0ppmCO, 20.9%O2, 0.00ppmNO2)</u>

- 3-Team met all requirements for the task
- 3 Points earned
- Rule 31 the two persons found live in the RC must be properly protected from the IDLH atmosphere outside the RC. (Team must ventilate due to only having one CARE-vent).
- 3-Team met all requirements for the task
- .3 Points earned
- Rule 32 team must evacuate persons to the FAB that were found in the RC by utilizing shortest route to the surface through previous explored areas.
- 3-Team met all requirements for the task
- 3 Points earned
- Rule 25 the entire team must remain together when removing any persons from the mine.
- 3-Team met all requirements for the task
- 3 Points earned
- 17. <u>Ventilating to clear IDLH atmospheres the teams has encountered on the lower level to properly remove, and rescue persons found in RC.</u>
 - Rule 33 The team must build a temporary stopping on one side of the caved area located between 110 & 111 due to the caved area is an inaccessible area.
 - 3-Team met all requirements for task
 - . Points earned



- Rule 23 prior to erecting a team built stopping a team member must verbally indicate checking for loose roof/ground.
- 3-Team met all requirements for the task
- Points earned
- Rule 36 to be consider airtight a temporary must have at least 8 of 9 clips across top clipped and 3 of 4 clips on each side clipped.
- 3-Team met all requirements for the task
- 3 Points earned
- Rule 33 The team must ensure the upper level is not affected by a ventilation change by
 closing the door located at the bottom of the ramp leading to the upper level due to the
 upper level is consider as an unexplored area.
- 3-Team met all requirements for the task
- Points earned
- Rule 34 the stopping may be built, and the door may be closed by either a group of two
 or by the entire team but afterward prior to a vent change, the entire team must all be
 together prior to starting the fan.
- 3-Team met all requirements for the task
- 3 Points earned

Ventilating to clear IDLH atmospheres

- Rule 35 prior to starting the fan the team must receive permission from the control group through a request from the IC/BO.
- 3-Team met all requirements for the task
- Points earned
- Rule 13 team must recheck gas concentrations after the ventilation change at their location (if in mine) and at all intersections traveled through immediately after the change occurred.
- 3-Team met all requirements for the task
- 9 Points earned



18	Advancing to upper level via ramp (gas readings bottom of ramp 0.0%Ch4, 1250ppmCO
	16.5%O2, 0.00ppmNO2) (gas readings top of ramp 0.0%Ch4, 1700ppmCO, 16.5%O2,
	0.00ppmNO2 and smoke)

•	Rule 11 when entering the ramp check gas concentrations on ramp leading up to uppe
	level.

- 3-Team met all requirements for the task
- 3 Points earned
- Rule 11 check gas concentrations at first appearance of smoke at top of ramp.
- 2-After completing the gas check the team did not report the air quality to IC/BO,
- 2 Points earned
- Rule 38 team must attach their lifeline in clear air prior to advancing.
- 3-Team met all requirements for task
- 3 Points earned
- 19. spad# 200-----(gas readings 0.0%Ch4, 1700ppmCO, 16.5%O2, 0.00ppmNO2 and smoke)
 - Rule 8 Team checks gas concentration at all intersections encountered.
 - 2-After completing the gas check the team did not report the air quality to the IC/BO,
 - 2 Points earned
 - Rule 24 team member must verbally indicate checking loose roof/ground at the location of caved/rock fall and faces.
 - 3-Team met all requirements for the task
 - 3 Points earned
- 20. spad# 203---(gas readings 0.0%Ch4, 1900ppmCO, 16.5%O2, 0.00ppmNO2 and smoke)
 - Rule 8 Team checks gas concentration at all intersections encountered.
 - 2-After completing the gas check the team did not report the air quality to the IC/BO,
 - 2 Points earned
 - <u>Rule 24</u> team member must verbally indicate checking loose roof/ground at the location of caved/rock fall.
 - 2-Team did not complete the task,
 - 2 Points earned

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Singareni Colleries



21. <u>Spad#204 (gas readings 0.0%Ch4, 1700ppmCO, 16.</u>	5.5%O2, 0.00ppmNO2 and smoke)
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- Rule 8 Team checks gas concentration at all intersections encountered.
- 2-After completing the gas check the team did not report the air quality to the IC/BO,
- 2 Points earned
- Rule 11 check gas concentration at location of victim/casualties.
- 2-After completing the gas check the team did not report the air quality to IC/BO,
- Points earned
- Rule 11 check gas concentration at closed door/airtight structure.
- 1-Team timed out before doing required gas check at closed door
- 1 Points earned
- Rule 32 team must evacuate person/manikin to the FAB that was found at this team stop by attempting to utilizing shortest route to the surface through previous explored areas but will find the route infeasible due to being blocked by a roof collapse.
- 3-Team met all requirements for the task
- Points earned
- <u>Rule 25</u> the entire team must remain together when removing any persons from the mine.
- 3-Team met all requirements for the task
- 3 Points earned
- 22. Air locking to breach closed door
 - Rule 37 before breaching an airtight separation/closed door an airlock is required.
 - 1-Team timed out before completing required task
 - 1 Points earned
 - Rule 23 prior to erecting a team built stopping a team member must verbally indicate checking for loose roof/ground.
 - 1-Team timed out before completing required task
 - 1 Points earned



	• Rule 36 to be consider airtight a temporary must have at least 8 of 9 clips across top clipped and 3 of 4 clips on each side clipped.
	1-Team timed out before completing required task
	1 Points earned
23.	 Breaching door(gas readings 0.0%Ch4, 0.0ppmCO, 20.9%O2, 0.00ppmNO2) Rule 11 check gas concentration on back of side of door after breaching.
	1-Team timed out before doing required gas check
	1 Points earned
24.	 <u>Rule 37</u> before breaching an airtight separation/closed door an airlock is required. The team may close outby door they just breached or if the airlock is still in place just outby the door then no additional airlock is needed by the team to breach this door.
	1-Team timed out before completing required task
	1 Points earned
	 <u>Rule 11</u> check gas concentration at closed door/airtight structure.
	1-Team timed out before doing required gas check at closed door
	1 Points earned
25.	 ■ Rule 11 check gas concentration on back of side of door after breaching.
	1-Team timed out before doing required gas check when breaching door
	1 Points earned
26.	Spad# 210(gas readings 0.0%Ch4, 0.0ppmCO, 20.9%O2, 0.00ppmNO2)
	• Rule 8 Team checks gas concentration at all intersections encountered.
	1-Team timed out before completing required gas check in intersection

- Points earned
- 27. Spad# 211-----(gas readings 0.0%Ch4, 0.0ppmCO, 20.9%O2, 0.00ppmNO2)

 Rule 8 Team checks gas concentration at all intersections encountered.
 - nuic o ream enecks gas concentration at an intersections encountered.
 - 1-Team timed out before completing required gas check in intersection
 - 1 Points earned



Mapping and note taking tasks.

Map rule 1:

The prepared map by the IC/BO must use proper map symbols that are shown in the 2020 IMRC rules.

- 1-team timed out before mapping all areas of the mine,
- 1 Points earned

Map rule 2:

The IC/BO prepared map must record accurately/verbatim all gas concentration readings and other information required to be reported by the team.

- 1-team timed out before mapping all areas of the mine,
- 1 Points earned

Map rule 3:

The IC/BO must record the time at the completion of each team apparatus test + the lowest gauge reading during each required apparatus test.

- 3-Team met all requirements for task
- 9 Points earned

Map rule 4:

There will be no visually comparing of maps during working of the problem by any team member located inside the designed command center/ FAB.

- 3-Team met all requirements for task
- Points earned

Discounts for disturbing or destroying competition field components 0

• <u>Total score from all tasks:</u> 199

Final Score 199

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2020 International Mines Rescue Contest September 13th-15th 2022 Mine Rescue Teams Skills Final Score sheet



2022 IMRC MINE RESCUE SKILLS SEPTEMBER 13TH THRU 15TH 2022

TOTAL SCORESHEET

TEAM NAME: SINGARENI COLLIERIES COMPANY LIMITED

DATE OF COMPETITION: 09/15/2022

ANEMOMETER SCORE: 21

SMOKE TUBE SCORE: 18

MAGNEHELIC SCORE: 11

GAS DETECTOR SCORE: 12

AIR LIFT BAG SCORE: 22 ✓

TEAM CHALLENGE TIME: 39:36

MINUS ANY DEMERITS: 0

TOTAL MINE RESCUE SKILLS SCORE: 84

TOTAL WORKING TIME: <u>59:52</u>

JUDGE'S NAMES: Travis Seals

Jonah Pritt







September 13-15, 2022

AIR LIFT BAG SKILL

TEAM NAME: SINGARENI COLLIERIES COMPANY LIMITED

SCENARIO

 Teams will be required to <u>SAFELY</u> lift an object using Compressed Air and Air Lift Bags:.

Judges Instructions

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

Rough Handling

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

IMRC will provide:

- "Mat-Jack" High Pressure Air Lift Bag
- Compressed Air Cylinder
- Regulator
- Hoses with Connections
- Flow Controller

Team Safety:

If at any time the Simulation Lead Judge feels that a team member's safety may be compromised, the action will be stopped and re-direct negative (penalty) points will apply

AIR BAG LIFT REQUIRMENTS

Teams will be separated into two person teams to complete this segments skills exercise.	t of the		
1. Team will properly connect the regulator to the compressed gas of	ylinder.		
	3		
Judge's Remarks:			
2. Team will properly connect the air lift bag hose to the regulator.			
	2		
Judge's Remarks:			
Did not rotate coupling quarter turn			

Judge's Remarks:	
Did not rotate coupling quarter turn	
4. Team will properly connect the hose from to bag.	the flow controller to the air lift
	2
Judge's Remarks:	
id not rotate coupling quarter turn	
5. Team will properly connect the hose from the bag.	he flow controller to the air lift
	3
udge's Remarks:	

3. Team will properly connect the hose from the flow controller to the air lift

bag.

	2
Judge's Remarks:	
Did not rotate coupling quarter turn	
7. Team will properly place blocking under the object being lifted.	
	2
Judge's Remarks:	
Did not rotate coupling quarter turn	
8. Team will properly deflate the bag.	
	3
Judge's Remarks:	

6. Team will properly connect the hose from the flow controller to the air lift

bag.

	3	
Judge's Remarks:		
		12' E
	TOTAL AIR LIFT BAG MERITS_	22
	LESS DEMERITS_	
Judge's Remarks:		
time 00:04:57		

TOTAL AIR LIFT BAG SCORE

9. Team will properly remove the bag from under the object being lifted.

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September 13-15, 2022

AIR MEASUREMENTS – ANEMOMETER

Team name: SINGARENI COLLIERIES COMPANY LIMITED

SCENARIO

- Teams will be required to take a reading using an anemometer.
- Contest will provide the required anemometer
- Contest will provide the required tape measure
- Contest will provide required pen or pencil
- Contestant(s) will provide their own timing device

Judges Instructions

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

Rough Handling

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

1. ANEMOMETER	REQUIRMENTS
---------------	-------------

Teams will be separated into two person teams to complete this segment of the skills exercise.

2. Contestant will give a brief description of	of how an anemometer functions 3
Judge's Remarks:	
3. Contestant(s) will take a measurement of the height of the area must be measured the area.	of the area to be tested. Both the width and I in order to determine the square footage o
Judge's Remarks:	3
4. Correctly zero the anemometer.	3
Judge's Remarks	

5. Stand with contestant's back to one rib and hold the anemometer in a position in front of contestant	vertical 3
Judge's Remarks:	
6. Properly traverse the entry	3
Judge's Remarks:	
7. Take a 1 minute (60 seconds) reading in the area:	3
Judge's Remarks:	
8. At the end of one minute, turn off the anemometer	3
Judge's Remarks:	

9. Contestant(s) will now calculate the calculated and submitted to the judg	air reading for the area (air reading muge)	ıst be
	0	
Judge's Remarks:		
Incorrect calculation with correction factor		
	ANEMOMETER TOTAL MERITS_	21
	LESS DEMERITS _	
Judge's Remarks:		
time 00:06:26		
	ANEMOMETER TOTAL SCORE: _	21



September 13-15, 2022

Mine Rescue Skills Gas Detector

TEAM NAME: SINGARENI COLLIERIES COMPANY LIMITED

SCENARIO

- Teams will be required to take a reading using an anemometer.
- Contest will provide the Industrial Scientific MX-6
- Contest will provide the required calibrating hood and hose
- Contest will provide required pen or pencil
- Contest will provide the required testing gas
- Contest will provide any required replacement sensors, etc

Judges Instructions

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

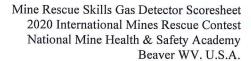
Rough Handling

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









1. GAS READINGS REQUIRMENTS

Teams will be separated into two person teams to complete this segment of the skills exercise.

2. Contestant will give a brief description of how a MX-6 functions	3
Judge's Remarks:	
- Historian parts	
Contract a Storage at the contract of the	1
i gares Real de la central de	. The little of
3. Contestant(s) will take the gas test in the proper order	3
Judge's Remarks:	
4. Contestant(s) will follow proper procedure when testing with gas detec	etors 3
Judge's Remarks	
5. Contestants will determine gas concentration within the prescribed error detector. Correct readings will be within 20% (inclusive) of the gas conthe test cylinder and observed on the analytical instruments	ncentration within
•	3
Judge's Remarks:	
Trial	

International Mines Rescue Competition Since 1999



GAS CONCENTRATIONS

METH	ANE
------	-----

% CH 4 in cylindo 2.5	er Min. Accepte	d Max.Accepted	% by Examiner 2.37	
	CARBO	ON MONOXIDE		
ppm CO in cylind	ler Min. Accepte	d Max. Accepted 120	ppm by Examiner 90	
	OXYGI	EN DEFICIENCY		
%O 2 in cylinder 18	Min. Accepte		% by Examiner 17.9	
	NITRO	OGEN DIOXIDE		
ppm NO2 5	Min. Accepted	Max. Accepted	ppm by Examin 5.2	er
Judge's Remarks:		GAS DETECTOR	FOTAL MERITS	12
			LESS DEMERITS _	
		GAS DETECT	OR TOTAL SCORE:	12
			WORKING TIME:	<u>2:12</u>
Judge's Name:	Travis Seals			
Judge's Name:				







September 13-15, 2020

MAGNEHELIC

SCENARIO

- Teams will be required demonstrate the proper use of a Magnehelic gauge.
- Contest will provide the Magnehelic gauge and hoses
- Contest will provide a device for zeroing the Magnehelic gauge

Judges Instructions

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

Rough Handling

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

1. MAGNEHELIC GAUGE REQUIRMENTS

Teams will be separated into two person teams to complete this segment of the skills exercise.

2. Contestant(s) failing to explain what a Magnehelic gauge measures 3
Judge's Remarks:
3. Contestant(s) will demonstrate how to zero the Magnehelic gauge. 3
Judge's Remarks:
4. Contestant(s) will connect the hoses to Magnehelic properly and simulate the reading.3
Judge's Remarks:
Judge's Remarks.
5. Contestant will give and explain the proper reading of the Magnehelic to the judge (positive or negative pressure should be included in the explanation).
2
Judge's Remarks: No decimal point

	MAGNEHELIC TOTAL MERTITS11
	LESS DEMERITS
Judge's Remarks:	
ime 00:02:25	

TOTAL MAGNEHELIC SCORE ____11

September 13-15, 2022

SMOKE TUBE AIR READING

TEAM NAME: SINGARENI COLLIERIES COMPANY LIMITED

SCENARIO

- Teams will be required to take an air reading using a smoke tube.
- Contest will provide the Smoke Tubes and Aspirating Bulb
- Contest will provide Tape Measure
- Contest will provide the pen or pencil
- Contestant(s) will provide a Timing Device that complies with the General Contest Rules

Judges Instructions

Merit Point 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 <u>must be explained</u> by the judges.
- 3. When a score of 3 is applied, comments are encouraged

Rough Handling

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

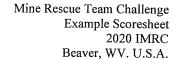
1. SMOKE TUBE REQUIRMENTS

1. SWOKE TODE REQUIRMENTS
Teams will be separated into two person teams to complete this segment of the skills exercise.
2. Contestant(s) will verbally explain how smoke will be released and timed through each of the four quadrants (The contestant(s) will not "break" the smoke tube).
3
Judge's Remarks:
3. Measure off a distance in a relatively straight and uniform airway. Ten (10) feet will be the distance for this measurement. Contestant(s) will determine the area to be tested in square feet.
3
Judge's Remarks:
7=

4. Contestant(s) with the smoke tube will stand at the upwind pomeasured distance, and station one person with a stopwatch a point.	
P	3
Judge's Remarks:	
5. Contestant(s) with the smoke tube then simulates releasing a each quadrant point within the airway.	smoke cloud at
	3
Judge's Remarks:	
6. The Contestant with the stopwatch then must time each cloud moment it is released until it reaches the downwind point. The measurements are taken separately for each of the quadrants is quadrants have been completed.	e
	3
Judge's Remarks:	

		3
Judges Remarks:	. Chuck	, olg — ij il
	SMOKE TUBE TOTAL MERITS	18
	LESS DEMERITS _	1 1,
Judges Remarks: time 00:04:16	1.20	<u> </u>
	SMOKE TUBE TOTAL SCORE	18

7. Contestant(s) will calculate smoke air reading for the area





September 13-15, 2022

MINE RESCUE TEAM CHALLENGE

Team Name: SINGARENI COLLIERIES COMPANY LIMITED

SCENARIO

• Any necessary subject matter and reference manuals used for "Mine Rescue Skills" are posted on the Competition Page of IMRC2020.com. □of MSHA's IG 7(a) manual.

Judges Instructions

Team Safety:

If at any time the Simulation Lead Judge feels that a team member's safety may be compromised, the action will be stopped and re-direct negative (penalty) points will apply

The Challenges will not be scored but will be timed. The cumulative time of the challenges will be added to the cumulative time for the other Mine Rescue Skills for a total time for the Mine Rescue Skills segment of the competition:

Each member of the six (6) person team will compete in the following challenges

Log Sawing Challenge

The Timing Device will be started when Team Member #1 begins the Log Sawing Challenge and will continue to run until the final Team member completes the Sledge Hammer Challenge

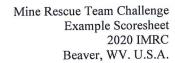
1. Each Team member (1-6) will saw a log in half with a handsaw

Carry Challenge

2. Each Team member (1-6) will carry (2) forty one (41 lbs) pound items (Dragersorb Kegs) for a distance of fifty (50) feet and return to the starting point while carrying the items









Fire Hose lay out Challenge

3. Each Team Member (1-6) will Roll out two (2) sections of fire hose from the designated starting point, Connect the two sections of fire hose, Un-connect and reroll the fire hose and Return the fire hose to the starting point

Sledge Hammer Challenge

4. Each Team Member (1-6) will use a sixteen (16) pound sledge hammer to move an 8 inch wide by 8 inch thick by 4 foot long log a distance of 4 feet.

	CUMULATIVE TIME 39:36
Judge's Name: Travis Seals	
Tudgo's Nome. Jonah Pritt	









2020 International Mines Rescue Contest September 13th-15th 2022 First Aid Final Score sheet

2022 IMRC FIRST AID SEPTEMBER 13^{TH} THRU 15^{TH} 2022 TOTAL SCORESHEET



TEAM NAME: SINGARENI CO	OLLIERIES COMPANY LIMITED
DATE OF COMPETITION: 09/13	
CASUALTY ONE MERITS:	106 0
CASUALTY TWO MERITS:CASUALTY TWO DEMERITS:	
CASUALTY THREE MERITS:CASUALTY THREE DEMERITS:	0
CASUALTY FOUR MERITS:CASUALTY FOUR DEMERITS: _	0
WORKING TIME: <u>28:54</u>	_
TOTAL FIRST AID MERITS: TOTAL CPR AED SCORE: MINUS FIRST AID DEMERITS: _	119 (Transfer total CPR AED score from scoresneed)
TOTAL FIRST AID SCORE:	468







INTERNATIONAL 2020 MINES RESCUE COMPETITION **SEPTEMBER** $13^{TH} - 15^{TH}$ **2022**

FIRST AID COMPETITION

SCENARIO

When the mine rescue team is at the Firefighting site they are told the following;

- An accident has happened at a surface site.
- The site is located at the Blue Falcon Mining Maintenance Shop.
- Their help is needed immediately.
- Emergency services have been notified.
- Emergency services estimate their response time will be forty-five minutes.
- A fully equipped first aid kit, AED and rescue basket is located at the Blue Falcon Mining Maintenance Shop.
- The team will arrive at the Maintenance Shop.
- The team will determine which one of the three patients that will require immediate transport.

When the team arrives at the Blue Falcon Mining Maintenance Shop they will;

- Gather their first aid kit and rescue basket.
- They will see smoke as they walk to the Maintenance Shop.

At the site the mine rescue team finds three injured workers and one obviously dead worker. It appears an explosion has taken place at an air compressor located in the shop. In the confusion that follows:

- Worker #1 (Bob) he suffers a crushing injury to the LLE from a bulldozer blade.
- Worker #2 (Al) he has electrical burns to the R hand and L shoulder, develops V-fib from the shock, conscious for about three minutes then goes unconscious and requires CPR/AED.
- Worker #3 (Jane) Walking wounded. She has a nail in the eye/safety glasses, confused, trying to help the burn victim, wanting to pull the nail out to see better so she can help. she will also have a foreign body in their leg.
- Worker #4 (Tina) Obvious Deceased worker. Her head is amputated from her body with pool of bright red blood. It appears that a piece of metal became air born from the explosion of the air supply tank connected to the air compressor.

Patients

- 1. Patient #1 (Bob) is lying on the ground with his left leg under a bulldozer blade. He is yelling in pain. Bright red blood is coming out from the leg.
- 2. Patient #2 (Al) was working at the breaker box when the air compressor exploded. The mine rescue team finds the patient lying beside the station box dazed, holding out his hands. He has electrical burns to the R hand and L shoulder, develops V-fib from the shock, conscious for about three minutes then goes unconscious and requires CPR/AED.
- 3. Patient #3 (Jane) (walking wounded) has a nail protruding from her safety glasses involving the eye. She also has a foreign body in their leg. She seems oblivious to either injury as she goes back and forth between the injured co-workers trying to aid. She has blood coming from both injuries.
- 4. Patient #4 (Tina) Obvious Deceased worker. Her head is amputated from her body with pool of bright red blood. It appears that pieces of metal became air borne from the explosion of the air supply tank connected to the air compressor

INTERNATIONAL MINE RESCUE COMPETITION 2020

FIRST AID COMPETITION

Judges Instructions

Merit Point 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.

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 incident of rough handling for each patient

4. Rough handling demerits will have a maximum of 10 points

3. Rough handling deductions must be explained by the judges

Team Safety:

If at any time the Simulation Lead Judge feels that a team member's safety may be compromised, the action will be stopped and re-direct negative (penalty) points will apply

INTERNATIONAL MINE RESCUE COMPETITION 2020

FIRST AID COMPETITION

ZENER A TAJE.	SINGARENI COLLIERIES COMPANY LIMITED
LLAIVI:	

<u>Patient-#1</u> (Bob) is lying on the ground with his left leg under a bulldozer blade. He is yellir pain. Bright red blood is coming out from the leg.	ng in
Merits Points	
SCENE SURVEY	
1. <u>Assess Hazards</u> Securing the environment. Assure the stability of the blade.	3
Judge's Comments:	
2. Use examination gloves	
Examination gloves must be used before contact with patient occurs	3
Gloves must be removed and disposed of properly	3
Judge's Comments:	

Page 1 Merits Sub Total 9

3. The team members must identify themselves and ask the patient if they want help.	3
Judge's Comments:	
Assess Breathing	
1. The team must assess the airway.	3
To assess the airway the team should talk to the patient. The patient will be able to speal there is a good airway.	c clearly indicating
Judge's Comments:	
Assess Circulation	
1. The team must assess circulation	
Γο assess circulation teams must check;	
Pulse	3
Skin Condition	3
Skin (Cool, Clammy, Dry)	3
udge's Comments:	
age 2 Merits Subtotal15	

Rapid Body Survey	
Teams must check;	•
1. The head and neck	3
Judge's Comments:	
2. The chest	3
Judge's Comments:	
3. The abdomen	3
Judge's Comments:	
4. The pelvis and buttocks	3
Judge's Comments:	
5. The legs	3
Judge's Comments:	
Page 3 Merits Subtotal	

6. The shoulders and arms.	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 rescuer can see. Judge's Comments:	3
2. Allergies Is the patient allergic to any medications or anything else? Judge's Comments:	3
3. Medication Is the patient taking any medications? Judge's Comments:	3
4. Pertinent Medical History Does the patient have any medical history the teams should know about? Judge's Comments:	3
Page 4 Merits Subtotal15	

5. Last Oral Intake What and when did the patient last eat?	3	
Judge's Comments:		
6. Events leading to the Injury/Illness What were the events that led to the incident? Judge's Comments:	3	
7. To treat for shock teams must;		
Reassure patient	3	
Keep patient warm	3	
Keep patient at rest	3	
Judge's Comments:		
Treatment of Injuries		
 Apply tourniquet to leg Teams must apply tourniquet appropriately and label. 	1	
Judge's Comments: Applied tourniquet to high above injury - should have been 2" above wound. Also team loosened the tourniquet several times to check for pulse or feeling in extremity - toes.		
Page 5 Merits Subtotal16		

SCENARIO #1 CONTINUED 2. Apply dressing to leg 3 Apply dressing to crushing injury of leg. Judge's Comments: 3. Appropriately package the patient for transport. Load and secure the patient in the rescue basket. 3 Judge's Comments: 4. Reassure until emergency services arrive 3 Judge's Comments: 6. Monitor until emergency services arrive 3 Judge's Comments: 7. Fill out casualty care report with the following information Date 3 Time 3 Team number (identity) 3 Location 3 Patient's Name 3 Vital Signs 3 Page 6 Merits Subtotal 30

Treatment	50				3
Injury Location on Body Outline					3
Judge's Comments:					
8. Rough Handling Deductions				Minus	s
Judge's Comments:					
					400
Page 7 Scenario #1 Total Merits1	106	less Total Demerits	0	_ Total Score _	106
Judge's Signature: Curtis Hardison and James Hodges					

INTERNATIONAL MINE RESCUE COMPETITION 2020

FIRST AID COMPETITION

TEAM: SINGARENI COLLIERIES COMPANY LIMITED

<u>Scenario</u> - Patient #2 (Al)This patient was working at the breaker box when the air compressor exploded. The mine rescue team finds the patient lying beside the breaker box dazed, holding out his hands. He has electrical burns to the R hand and L shoulder. After three minutes (or the team completes all treatment, they are going to perform) the patient becomes unconscious and unresponsive, CPR is required. Will be required to do two sets of CPR and utilize the AED.

SCENE SURVEY	Merits Points
1. <u>Assess Hazards</u> If the team looks for live wires, debris around area they will have demonstrated assessing hazards	3 ng and correcting
Judge's Comments:	
2. Use examination gloves	
Examination gloves must be used before contact with patient occurs	3
Gloves must be removed and disposed of properly	3
Judge's Comments:	

Page 1 Merits Subtotal 9

3. Rescue	0
The victim will be lying on the ground moaning. The team will avoid wires to The patient will not speak will only moan for the first three minutes.	antil assurance they are not live.
Judge's Comments:	
Not scored	
4. Identify Themselves as Emergency Responders	3
	s help.
The team members should identify themselves and ask the patient if he wants	s neip.
Judge's Comments:	
1. Assess Breathing The Level of Consciousness of Patient #2 changes 3 minutes after the sce completes their treatment). Patient's Level of Consciousness changes fro unconscious To reassess breathing teams must:	m non responsive to
Look for the rise and fall of the chest	3
Feel for air movement Listen for air movement	3
Listell for all movement	
Judge's Comments:	
Page 2 Merits Subtotal12	

Assess Circulation

Page 3 Merits Subtotal 13

2. The team must assess circulation	
Pulse	3
Skin Condition	3
Skin (Cool, Clammy, Dry, Moist)	3
Judge's Comments:	Ū
3. When the patient becomes unconscious teams must place patient in the supine position Judge's Comments:	n. 3
P. Begin CPR Teams must run two sets of CPR and utilize the use of an AED. Tudge's Comments: Only did one set / one rescuer; delayed the start of it.	1

Triage Rapid Body Survey	
Teams must check;	
1. The head and neck	3
Judge's Comments:	
2. The chest	3
Judge's Comments:	
3. The abdomen	3
Judge's Comments:	
4. The pelvis and buttocks	3
Judge's Comments:	
5. The legs	3
Judge's Comments:	
6. The shoulders and arms	3
Judge's Comments:	
Page 4 Merits Subtotal18	

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 rescuer can see.	3
Judge's Comments:	
2. Allergies Is the patient allergic to any medications or anything else?	3
Judge's Comments:	
3. Medication Is the patient taking any medications?	3
Judge's Comments:	
4. Pertinent Medical History Does the patient have any medical history the teams should know about?	3
Judge's Comments:	
5. Last Oral Intake What and when did the patient last eat?	3
Judge's Comments:	
Page 5 Merits Subtotal 15	

6. Events leading to the Injury/Illness What were the events that led to the incident?	3
Judge's Comments:	
7. To treat for shock teams must;	
Reassure patient	3
Keep patient warm	3
Keep patient at rest	3
Judge's Comments:	
8. Teams must transport patient #2 to the evacuation area first Judge's Comments: Not scored	0
Page 6 Merits Subtotal 12	

Patient Care Report

1. Teams to fill out casualty care report with the following information	
Date	3
Time	3
Team number (identity)	3
Location	3
Patient's Name	3
Vital Signs	3
Treatment	3
Injury Location on Body Outline	3
Judge's Comments:	J
2. Rough Handling Deductions Minus	
Judge's Comments:	
Page 7 Scenario #2 Total Merits103less Total Demerits0Total Score10)3_
Judge's Signature: Vicki Mullins and Michael Dillingham	

INTERNATIONAL MINE RESCUE COMPETITION 2020

FIRST AID COMPETITION

TEAM: SINGARENI COLLIERIES COMPANY LIMITED

Page 1 Merits Subtotal 9

<u>Scenario - #3</u> Patient #3 (Jane)This patient has a nail protruding from her safety glasses involving her eye. She also has a foreign body in her leg. She appears oblivious to either injury as she goes back and forth between injured co-workers trying to aid them. She has blood running from both injuries.

SCENE SURVEY	
1. <u>Assess Hazards</u> Asses for live wires, standing water, loose rubble.	3
Judge's Comments:	
2. Use examination gloves	
Examination gloves must be used before contact with patient occurs	3
Gloves must be removed and disposed properly	3
Judge's Comments:	

3. Identify Themselves as Emergency Responders	3
The team members should identify themselves and ask the patient if he wants help.	
Judge's Comments:	
1. The team must assess the mental status of the patient.	
Ask about the incident Ask if patient aware of day, time	3
Judge's Comments:	
2. Stabilization of foreign bodies. Applies dressing that stabilizes both foreign bodies Controls the bleeding.	3 5
udge's Comments:	-
age 2 merits subtotal 17	

Assess Circulation

1. The team must assess circulation To assess circulation teams must check;	
Pulse	3
Skin Condition	3
Skin (Cool, Clammy, Dry)	3
Judge's Comments:	
Rapid Body Survey	
Teams must check;	
1. The head and neck	3
Judge's Comments:	
2. The chest	3
Judge's Comments:	
3. The abdomen	3
Judge's Comments:	

Page 3 Merit subtotal 18

4. The pelvis and buttocks Judge's Comments:	3
5. The legs	3
Judge's Comments:	
6. The shoulders and arms	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 rescuer can see.	3
Judge's Comments:	
2. Allergies Is the patient allergic to any medications or anything else?	3
Judge's Comments:	
Page 4 Merits Subtotal 15	

3. Medication Is the patient taking any medications?	3
Judge's Comments:	
A. D. C. A. M. Picel Wintows	3
4. Pertinent Medical History Does the patient have any medical history the teams should know about?	C
Judge's Comments:	
5. Last Oral Intake What and when did the patient last eat?	3
Judge's Comments:	
6. Events leading to the Injury/Illness What were the events that led to the incident? Judge's Comments:	3
7. To treat for shock teams must;	_
Reassure patient	3
Keep patient warm	3
Keep patient at rest	3
Judge's Comments:	
Page 5 Merits Subtotal 21	

Treatment of Injuries

If team tries to remove foreign body rough handling will apply	
Fully expose injury without removing the foreign body	3
Maintain areas for position of comfort	3
Apply dressing(s)	3
Pad above and below wound	3
Apply a bandage	3
Apply bandage to support the foreign bodies	3
Cover both eyes	3
Patient Care Report	
1. Teams to fill out casualty care report with the following information	
Date	3
Time	3
Team number (identity)	3
Location	3
Patient's Name	3
Vital Signs	3
Treatment	3
Injury Location on Body Outline	3
Judge's Comments	

Page 6 Merits Subtotal 45

2. Rough Handling Deductions	Minus
Judge's Comments:	
Page 7 Scenario #3 Total Merits 125 less Total Demerits 0 Total S	Score 125
Judge's Signature: Brandon Neal and Adam Sipes	

INTERNATIONAL MINE RESCUE COMPETITION 2020

FIRST AID COMPETITION

TEAM: SINGARENI COLLIERIES COMPANY LIMITED

Scenario - #4 Patient #4 (Tina) Obvious Deceased worker. Her head is amputated from her body with pool of bright red blood. It appears that pieces of metal became air borne from the explosion of the air supply tank connected to the air compressor.

connected to the air compressor.	f the air s
SCENE SURVEY	
1. <u>Assess Hazards</u> Securing the environment. Assure the stability of the blade.	3
Judge's Comments:	
2. Use examination gloves	
Examination gloves must be used before contact with patient occurs	0
Gloves must be removed and disposed of properly	0
Judge's Comments:	
Did not have examination gloves on.	
Page 1 Merits Sub Total3	

Assess Breathing

1. The team must assess the airway.	3
To assess the airway the team should talk to the patient. Obviously deceased amputated head.	
Judge's Comments:	
Assess Circulation	
1. The team must assess circulation	
To assess circulation teams must check;	
Pulse	3
Judge's Comments:	
Patient Care Report	
Teams to fill out casualty care report with the following information	
Date	0
Time	0
Team number (identity)	0
Location	0
Patient's Name	0
Vital Signs	3
Treatment	3
Injury Location on Body Outline	0
Judge's Comments:	
Did not cover; Did not fill out patient care report completely - only marked deceased.	Page 2 Merits Sub Total 12

Judge's Signature: Brandor	n Nea	l and Adam Sipe	S		
Page 2 Scenario #4 Total Merits	15	less Total Demerits	0	Total Score	15



INTERNATIONAL MINES RESCUE COMPETITION 2020 FIRST AID COMPETITION CPR AED

Judges manachons	Judges	Instructions
------------------	--------	--------------

TEAM:

Scoring:

0 = not done

1 = poor attempt

SINGARENI COLLIERIES COMPANY LIMITED

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.

CPR/AED Total Merits	119	less Total Demerits	0	_Total Score _	119









Page 1

INTERNATIONAL MINE RESCUE COMPETITION 2020 FIRST AID COMPETITION **CPR AED**

TEAM: SINGARENI COLLIERIES COMPANY LIMITED	
Team Approach	
1. Captain calls in and provides an update	
Team must update control centre	0
Judge's Comments:	
Never heard captain or team member update anyone	
2. Initial Response	
A team member	
Assesses patient	3
Prepares to start CPR	3
A team member	
Sets up personal pocket mask	3
A team member	
Gets the AED	3
Sets up the AED	3
Judge's Comments	

Page 1 Merits Subtotal _









Page 2

3. Use examination gloves	
Examination gloves must be used before contact with patient occurs	3
Airway check Breathing check Circulation check	3 3 3
Judge's Comments:	
4. Rescuer #1 to start CPR Immediately (without delay)	0
Proper hand placement, place the heel of one hand on the idle of the person's	chest. 3
Place the other hand on top.	3
Do 30 compressions. (Compression depth 5cm (2 inches)	1
Allow the chest to recoil after each compression.	1
Compression Rate 30 compressions in about 18 seconds at a rate of 100 - 120	1
Judge's Comments:	
Delayed the start of the CPR. Computer showed 5% on compressions for rate; compressions.	100% on depth of
5. Rescue breather #1 with a Resuscitation Mask (pocket mask)	
Place the mask so that it covers the person's mouth and nose.	3
Position the lower rim of the mask between the person's lower lip and chin.	3
The opposite end of the mask should cover the nose	3
Page	2 Merits Subtotal30









		Page 3
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	1	
Maintain an open airway using head tilt chin lift.	0	
Give two breaths	3	
Watch to see if chest is rising and falling.	3	
Repeat 2 breaths every thirty compressions	1	
Judge's Comments:		
Did not give enough breaths.		
6. AED arrives		
Open and turn on the AED	3	
Remove any clothing or objects (including Jewelry) from the person that may come in contact with the pads.	3	
Remove any medical patches, including nitroglycerin, nicotine, or hormone.	3	
Ensure that the chest is dry and free of hair so the pads can stick.	3	
Properly place the AED Pads (follow the diagrams on the pads)	3	
Pads must be at least 2.5cm (1") between pads when placed on the chest.	3	
Follow the AED's automated prompts	3	
Judge's Comments:		

Page 3 Merits Subtotal 29









Page 4 When the AED prompts you to give a shock the team should: Stand clear 3 Say "I'm clear, you're clear, everybody's clear." Make sure that no one is touching the person in cardiac arrest 3 during analyze and shock modes. Judges' Comments: 7. Two-Rescuer CPR Switch quickly with another rescuer every two minutes (between cycles) to maintain the quality of CPR. Feel for carotid pulse No signs of circulation continue CPR Judge's Comments: Did not switch. CPR Rescuer #2 Proper hand placement, place the heel of one hand on the idle of the person's chest. Place the other hand on top. Do 30 compressions. (Compression depth 5cm (2 inches)

Page 4 Merits Subtotal ______









Page 5 Allow the chest to recoil after each compression. Compression Rate 30 compressions in about 18 seconds at a rate of 100 - 120 Judge's Comments: 5% on accuracy of rate & depth of compressions. Rescue Breather #2: Set up personal pocket mask 0 Place the mask so that it covers the person's mouth and nose. 0 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 When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place. Maintain an open airway using head tilt chin lift. Give two breaths 0 Watch to see if chest is rising and falling. Repeat 2 breaths every thirty compressions Judge's Comments: Didn't switch rescuers - same team member did compressions and breaths.

Page 5 Merits Subtotal _____2









Page 6 3 Follow the AED's automated prompts When the AED prompts you to give a shock the team should: Stand clear 3 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. Judge's Comments: 8. Two-Rescuer CPR Switch quickly with another rescuer every two minutes (between cycles) to maintain the quality of CPR. 0 Feel for carotid pulse No signs of circulation continue CPR Judge's Comments: Didn't switch positions CPR Rescuer #3 Proper hand placement, place the heel of one hand on the idle of the person's chest. Place the other hand on top. Do 30 compressions. (Compression depth 5cm (2 inches)

Page 6 Merits Subtotal ___









Page 7 Allow the chest to recoil after each compression. Compression Rate 30 compressions in about 18 seconds at a rate of 100 - 120 Judge's Comments: Rapid compressions; too fast. Rescue Breather #3 Set up personal pocket mask Place the mask so that it covers the person's mouth and nose. 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 When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place. Maintain an open airway using head tilt chin lift. Give two breaths 0 Watch to see if chest is rising and falling. Repeat 2 breaths every thirty compressions Judge's Comments:

Page 7 Merits Subtotal ____2









Page 8 0 Follow the AED's automated prompts When the AED prompts you to give a shock the team should: Stand clear Say "I'm clear, you're clear, everybody's clear." Make sure that no one is touching the person in cardiac arrest 0 during analyze and shock modes. Judge's Comments: 9. Two-Rescuer CPR Switch quickly with another rescuer every two minutes (between cycles) to maintain the 0 quality of CPR. Feel for carotid pulse No signs of circulation continue CPR Judge's Comments: **CPR Rescuer #4** Proper hand placement, place the heel of one hand on the idle of the person's chest. Place the other hand on top. Do 30 compressions. (Compression depth 5cm (2 inches)







Page 8 Merits Subtotal



Page 9 Allow the chest to recoil after each compression. Compression Rate 30 compressions in about 18 seconds at a rate of 100 - 120 Judge's Comments: Rescue Breather #4 Set up personal pocket mask Place the mask so that it covers the person's mouth and nose. 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 When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place. Maintain an open airway using head tilt chin lift. Give two breaths Watch to see if chest is rising and falling. Repeat 2 breaths every thirty compressions Judge's Comments:

Page 9 Merits Subtotal ____0









Page 10 0 Follow the AED's automated prompts When the AED prompts you to give a shock the team should: Stand clear 0 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. Judge's Comments: 10. Two-Rescuer CPR Switch quickly with another rescuer every two minutes (between cycles) to maintain the quality of CPR. 0 Feel for carotid pulse No signs of circulation continue CPR Judge's Comments: **CPR Rescuer #5** Proper hand placement, place the heel of one hand on the idle of the person's chest. Place the other hand on top. Do 30 compressions. (Compression depth 5cm (2 inches)

Page 10 Merits Subtotal ____0









Page 11

Allow the chest to recoil after each compression.	0
Compression Rate 30 compressions in about 18 seconds at a rate of 100 - 120	0
Judge's Comments:	
Rescue Breather #5	
Set up personal pocket mask	0
Place the mask so that it covers the person's mouth and nose.	0
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
When giving rescue breaths, maintain a good seal by using both hands to hold the mask in place.	
Maintain an open airway using head tilt chin lift.	0
Give two breaths	0
Watch to see if chest is rising and falling.	0
Repeat 2 breaths every thirty compressions	0
ludge's Comments:	

Page 11 Merits Subtotal ____0









	Р	age 12
Follow the AED's automated prompts	0	
When the AED prompts you to give a shock the team should:		
Stand clear	0	
Say "I'm clear, you're clear, everybody's clear."	0	
Make sure that no one is touching the person in cardiac arrest during analyze and shock modes.	0	
Judge's Comments:		
Rough Handling Deductions		
Judge's Comments:		
Page 12 Merits Sul	ototal _	0
CPR/AED Total Merits119 less Total Demerits0 Total S	core _	119
Judge's Name: Vicki Mullins and Michael Dillingham		





Judge's Name: _____







2020 International Mines Rescue Contest September 13th-15th 2022 Fire Fighting Final Score sheet



2022 IMRC FIRE FIGHTING SEPTEMBER 13^{TH} THRU 15^{TH} 2022 TOTAL SCORESHEET

TEAM NAME: SINGARENI COLLIERIES COMPANY LIMI	TED
TEAM NAME: ON ON WELL TO SEE THE SEE T	
DATE OF COMPETITION: 09/13/2022	
FIRE HOSE HOOK UP SCORE:	14
FIRE HOSE and NOZZLE MANAGEMENT SCORE:	15
LIVE FIRE/REMOTE MONITOR SET UP SCORE:	22 24 A)
MINUS ANY DEMERITS:	3
TOTAL FIRE FIGHTING SCORE:	48 50 PS







2020 International Mines Rescue Competition Fire Fighting Scenario Scoresheets September 13th – 15th 2022

TEAM NAME: SINGARENI COLLIERIES COMPANY LIMITED

COMPETITION DATE: 09/13/2022

Judges Instructions

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

Rough Handling

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

Team Safety:

If at any time the Simulation Lead Judge feels that a team member's safety may be compromised, the action will be stopped and re-direct negative (penalty) points will apply

Fire Hose Hook Up

1. Did the team flush the fire hydrant?	2
Judge's Remarks:	
Inadequate hydrant flush.	
2. Did a team member remain at the fire hydrant until are hoses were established?	3
Judge's Remarks:	
Eiro Hose Lavs	
Fire Hose Lays	3
1. Was fire hose lay properly flushed?	
Judge's Remarks:	
	2
2. Was open end of fire hose secured during flushing process?	3
Judge's Remarks:	
9	
	0
3. Were connections properly hand tightened?	3
Judge's Remarks:	

Fire Hose and Nozzle Management

1. Were teams split up equally on each hose lay?	3
Judge's Remarks:	
2. Did team flush the fire nozzle?	2
Judge's Remarks:	
Left side not in right position to flush.	
3 Did fine have to the second of the second	
3. Did fire hose team maintain an arm's length spacing at all times and keep the and straight? Judge's Remarks:	hose level 1
Did not maintain arm's length spacing while in dynamic.	
The state of the s	
4. Did the nozzle man open the flow to the nozzle slowly, and deliberately?	3
Judge's Remarks:	
	A

5. Did the nozzle man dictate terms of advancement and maintain control of stream?	3
Judge's Remarks:	
6. Did the team complete the pattern in the time allotted?	3
Judge's Remarks:	
Live Fire/Remote Monitor Set Up	
1. Did team members correctly don their apparatus?	1
Judge's Remarks: Team required assistance to don apparatus properly. Two team members LDV out while under air.	popped
2. Did fire team advance with full fog pattern to designated point?	3
Judge's Remarks:	
3. Were team members positioned along the inside of the hose lays? Judge's Remarks:	3
V448	

.

4. Did trailing persons retrieving equipment maintain contact with the hose lines	? 1
Judge's Remarks:	
Trailing persons on both sides attempted to walk up to the fire without taking h	ose line.
5. Was monitor properly set up?	
mass meanter property set up:	1
Judge's Remarks:	
Monitor was shut down too fast. Shutdown was not gradual. Team did not mail fog on fire.	ntain full
6. Did the team utilize proper techniques in transitioning from the nozzle to the m	0.0.14
Judge's Remarks:	1 3 A
Monitor was shut down too fast. Shutdown was not gradual. Team did not main	
fog on fire.	tan iun
7. Did the team flush the monitor after it was established?	
?. But the team riush the monitor after it was established?	3
Judge's Remarks:	
8. Did the team adjust the monitor to a fire fighting pattern?	3
Judge's Remarks:	
	5

7. Dia 15		3
Judge's Remarks:		
10. Did team bring out nozzle and hose clamp?		3
Judge's Remarks:		
Burn Pad Time14:10		
Burn Tunnel Time 22:56		
Total Time37:06		
	Total Merits:	51 53 AJ
	Minus Demerits:	3
Judge's Remarks:		
Cone knocked down 1 Hose and nozzle not returned to proper location 2 Reset needed.		

9. Did team members all maintain hand contact with hose on retreat to fresh air base?

Total Score 48 56 PM



INTERNATIONAL MINES RESCUE COMPETITION 2020

September 13-15, 2022

BG 4 TECHNICIAN TOTAL SCORE and WORKING TIME

TOTAL SCORE and Western
TEAM NAME: SINGARENI COLLIERIES COMPANY LIMITED
TECHNICIAN NAME: GAJANAVENI SRINIVAS
DATE: 09/15/2022
TOTAL MERITS: 54
TOTAL DEMERITS:
TOTAL POINTS: 54
WORKING TIME (IN Minutes and Seconds) 28:51

Merit Point 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.
- 3. When a score of 3 is applied, comments are encouraged
- 4. If the Technician runs out of time a score of 0 will apply to remaining actions

Rough Handling or abuse of Equipment:

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









SCENARIO

When the Technician arrives, they will find;

- A fully assembled BG 4 Breathing Apparatus.
- A kit of tools
- An isolation test kit
- An RZ 7000
- Liquid for Detection of Leaks
- All spare parts that are necessary to carry out the task

Merits Points

Visual Inspection

1. <u>TECHNICIAN MUST VISUALLY CHECK THE FOLLOWING:</u> FACEPIECE, HOSES AND REFILLABLE CANISTER.

3

Judge's Comments:

2. Insert O2 Cylinder

Cylinder Pressure <u>Must</u> be greater than <u>2,600</u> psi Check the Hydrostat check date

3









3. Low Pressure Warning

Zero Adjust (Automatic) Connect Hose Coupler Set to Positive Pressure Pumping (Low Pressure Warning should Activate at less than 1.4 mbar

3

Judge's Comments:

4. Inhalation Valve

Set to Positive Pressure Pumping (Tightly pinch exaltation hose And pump slowly until 10 mbar is indicated

3

Judge's Comments:

5. Exhalation Valve

Set to Negative Pressure Pumping (Tightly pinch inhalation hose And pump slowly until -10 mbar is indicated

3









6. Drain Valve:

Set to Positive Pressure Pumping Fit sealing cap over relief valve & pump until the Drain Valve Opens The Drain Valve Should Open between 10 mbar and 18 mbar

3

Judge's Comments:

7. Leak Test w/Positive Pressure

Set to Leak Test

Press Button to Reduce Pressure to <u>7.5 mbar</u>

Press OK Button to Activate Timer

Pressure Should **NOT** change by more than **1 mbar** in 1 minute

Vent Tester

Remove Sealing Cap

3

Judge's Comments:

Benchman did an excellent job tracking down the damaged / defective parts and had excellent troubleshooting skills.

8. Relief Valve

Set to Positive Pressure Pumping Pump until Relief Valve Opens. It should be between 2 & 5 mbar

3









9. High Pressure Leak Test

Set to Leak Test

Open cylinder valve. (Cylinder pressure must be greater than 2,600 psi) Sentinel Displays the **CLOSE CYLINDER ICON:** Close Cylinder Valve Sentinel Displays the **OPEN CYLINDER ICON:** Open Cylinder Valve

Vent Tester

Breathing Bag will deflate

3

Judge's Comments:

10. Constant Metering Valve

Set to Positive Pressure Pumping

Fit Sealing Cap over Relief Valve & Pump until Breathing Bag is Inflated

Dosage L/min

Constant Dosage should lie between 1.5 and 1.9 L/min

3

Judge's Comments:

11. Minimum Valve

Set to Negative Pressure Pumping

Gently Pump & Remove Sealing Cap from Relief Valve Pump slowly until hissing sound is heard Minimum Valve should Open Between 0.1 % 2.5 mbar

3









12. Bypass Valve

Set to Leak Test

Press red bypass button, oxygen must be heard flowing into the circuit Breathing Bag Inflates

3

Judge's Comments:

13. Residual Pressure Warning

Set to Leak Test

Close Cylinder Valve. Watch Sentinel Display Unit Warning should be generated at approximately 700 psi Unplug coupling from RZ 7000 & Replace Sealing Cap on Plug In Coupling when Pressure reaches 0 psi

3

Judge's Comments:

14. Battery Test

On Activation & Deactivation the Sentinel automatically checks &

Displays Battery Capacity

Battery Warning 1: When Benching REPLACE BATTERY

Battery Warning 2: REPLACE BATTERY BEFORE ANY NEW OPERATION

Turn off Unit by simultaneously pressing right & left buttons

3

Judge's Comments:



International Mines Rescue Competition Since 1999





15. BG 4 Fully Assembled and Ready for Use:	
Facepiece Defogged	
Facepiece Connected	3
Judge's Comments:	
16. BG 4 Problems:	
Wrong Nosecup	0
Damagad Drain Walva	3
Damaged Drain Valve	3
Damaged Drain Valve Disk	3
Damaged Relief Valve	3
Readout Cover Missing -	0
Judge's Comments:	
Rough Handling Judge's Comments:	Total Merits 54
	less Total Demerits
	Total Score54_
	Working Time: 28:51
Toyld Stopp	
Judge's Name: David Stepp	-
Judge's Name: Tom Stefansky	









THEORY ASSESSMENT TOTAL SCORESHEET

TEAM NAME: India Team 1 Sengerini Collieries

DATE OF COMPETITION: 09/14/2022

TOTAL SCORE: 72	TIME: 7.48	3
QUESTION NUMBER	NUMBER OF ATTEMPTS	SCORE
1.	1	3
2.	1	3
3.	1	3
4.	1	3
5.	1	3
6.	1	3
7.	1 ,	3
8.	1	3









Theory Assessment Total Scoresheet IMRC 2020 National Mine Health & Safety Academy Beaver, WV, U.S.A.

QUESTION NUMBER	NUMBER OF ATTEMPTS	SCORE
9.	1	,3
10.	1	3 _
11.	1	3
12.	1	3
13.	1	3
14.	1	3.
15	1	3
16.	1	3
17.	1	3,
18.	1	3 ·
19.	1	3









Theory Assessment Total Scoresheet IMRC 2020 National Mine Health & Safety Academy Beaver, WV, U.S.A.

QUESTION NUMBER	NUMBER OF ATTEMPTS	SCORE
20.	1	3
21.	1	3
22.	1	3
23.	1	3 -
24.	1	3







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