

INTERNATIONAL MINES RESCUE COMPETITION 2020 September 13-15, 2022

Mine Rescue Skills Gas Detector

The following are examples of performance checklists (scoresheets) with merit/penalty values (scoring points). This document is being provided to the teams in advance of the 2022 IMRC for training purposes. These rule interpretations were agreed upon by Simulation Lead Judges and Simulation Judges in advance of the event.

These provided interpretations of the rules and scoring examples are for Section 9, Mine Rescue Skills Scenario/Simulation Rules Not all scoring examples provided in this document will be used in the 2022 IMRC problem design.

TEAM NAME: _

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





International Mines Rescue Competition Since 1999





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. 0123

Judge's Remarks:

2. Contestant will give a other description of now a wix-o functions 0.1.2.5
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Judge's Remarks:

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з.	Contestant(s) will	lake the gas lest	in the proper order	0125

Judge's Remarks:

4. Contestant(s) will follow proper procedure when testing with gas detectors 0123

Judge's Remarks_____









Contestants will determine gas concentration within the prescribed error rate of the detector. Correct readings will be within 20% (inclusive) of the gas concentration within the test cylinder and observed on the analytical instruments
0 1 2 3

Judge's Remarks:_____

GAS CONCENTRATIONS

METHANE

% CH 4 in cylinder	Min. Accepted	Max.Accepted	% by Examiner			
	CARBON MONOXIDE					
ppm CO in cylinder	Min. Accepted	Max. Accepted	ppm by Examiner			
	OXYGEN I	DEFICIENCY				
%O 2 in cylinder	Min. Accepted	Max. Accepted	% by Examiner			
	NITROGE	N DIOXIDE				
ppm NO2	Min. Accepted	Max. Accepted	ppm by Examiner			
		GAS DETECTOR TOTAL MERITS				
		I	LESS DEMERITS			
	GAS DETECTOR TOTAL SCORE:					
			WORKING TIME:			



