Notes

Technician Team

Draw Number

Team Name

Company Name

Instrument Model _____   Serial # _____

National Mine Rescue Contest - Discount Card

Technician Team

Working Time

Minutes   Seconds

_____:_____

SIGNATURES:

Timekeeper: _____

Written Examiners: _____

Judges: _____

Scorecard Examiners: _____

Chief Judge/Appeals Committee: _____

Air Calculation Worksheet

3. Air Calculation Worksheet discount will result in one (1) point discount for each of the following:

   a. Incorrect smoke tube velocity (____ FPM) .... 1 _____
   b. Incorrect smoke tube area (____SF)............................ 1 _____
   c. Incorrect smoke tube volume (____CFM) .... 1 _____
   d. Incorrect anemometer area (____ SF) .... 1 _____
   e. Incorrect anemometer reading (___corrected FPM)........ 1 _____
   f. Incorrect anemometer volume (___CFM)..................... 1 _____
   g. Incorrect magnehelic reading (____inches) .... 1 _____
   h. Incorrect magnehelic pressure (Positive or Negative)...... 1 _____

Gas Detector Problem

Sensor		Alarm Points Reqd.	Set	Comments	Incorrectly Set Alarms
O_2	Low	19.5	_____	_____	_____
	High	23.5	_____	_____	_____
CH_4	Low	1.0	_____	_____	_____
	High	1.5	_____	_____	_____
CO	Low	50	_____	_____	_____
	High	100	_____	_____	_____
NO_2	Low	3.0	_____	_____	_____
	High	5.0	_____	_____	_____

7. Alarm Point for incorrectly set alarms   20 x _____ = _____
   Functional (Bump) Test not performed
   if required (each infraction)   20 x _____ = _____

8. Each instance of incorrect procedure or equipment use
   during Calibration of instrument (each infraction)   20 x _____ = _____

10. "Unknown" gas mixture concentration not identified:

   O_2 Concentration   (+0.5%)   Bottle _____ % Team Found _____ %
   CH_4 Concentration (+0.2%)   Bottle _____ % Team Found _____ %
   CO Concentration   (+/-10%) Bottle _____ % Team Found _____ %
   NO_2 Concentration (+3ppm)   Bottle _____ % Team Found _____ %

                     Discounts for each gas: 15 x   =

11. Deficiency (bug) not corrected (each deficiency)   5 x _____ = _____

12. Multi-gas Instrument(s) not "ready for use"   5 x _____ = _____

13. Any action taken by a contestant that risk damage
    to the MX-6 will result in disqualification of the unit
    from the contest.   20 x _____ = _____

Air Measurement
Anemometer

1. Failure to provide anemometer, measuring tape
   and timing device...1 _____
2. Failure to give brief description of the anemometer
   (how to zero and turn on the anemometer) ....1 _____
3. Failure to take a proper measurement of the area
   to be tested..1 _____
4. Failure to correctly zero the anemometer ....1 _____
5. Failure to traverse the entry ....1 _____
6. Failure to taking a 1-minute reading in the area ....1 _____
7. Failure to calculate correctly the air reading for the area
   in cfm (air reading must be calculated with pencil or pen
   and submitted to the Judge)..1 _____

Smoke Tubes

1. Failure to provide smoke tubes with aspirator bulb,
   measuring tape and timing device ....1 _____
2. Failure to measure off a distance of 10 feet ....1 _____
3. Failure to take measurement of the area to be tested ....1 _____
4. Failure of team members to verbally explain how smoke
   will be released and timed through each of the four
   quadrants..1 _____
5. Failure to apply smoke (discount per each quadrant) ....1 _____
6. Failure to calculate the smoke air reading for the area
   in cfm (air reading must be calculated with pencil or pen
   and submitted to the judge) ....1 _____

Magnehelic

1. Failure to provide a Magnehelic and necessary port hoses
   and fittings...1 _____
2. Failure to explain what the Magnehelic is used to measure .1 _____
3. Failure to demonstrate how to zero the Magnehelic............1 _____
4. Failure to connect the hoses to Magnehelic properly and
   simulate the reading..1 _____
5. Failure to give and explain the proper reading of the
   Magnehelic to the Judge (positive or negative pressure
   should be included in the explanation) ....1 _____

General Rules

1. Failure to comply with other written adopted National Rules not
   covered in the discount sheet (each infraction) 2 x _____ = _____

Written Examination

1. For each incorrect answer   1 x _____ = _____

_____   _____   _____
Calc. Worksheet Discount   Gas Detector Discount   Air Measurement Discount

_____
Total Discounts