



## **NATIONWIDE MINE RESCUE SKILLS**

**197 DUNN STATION ROAD**

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### **Comments for Docket Number MSHA-2013-0037 (IG-7a)**

#### **Page 2 - Additional "Bullet"**

- Advance Skills Training
  - All skills training covered in this Instruction Guide, including reviews and summaries can be achieved by participating in a Skills Contest approved by the Nationwide Mine Rescue Skills Committee.

#### **Page 13 - Additional "Bullet" under objectives**

- Perform calibration as per their manual

#### **Page 17 - Exploration Exercise**

It is the opinion of the Nationwide Mine Rescue Skills committee that MSHA already has established MERD Guidelines. To include MERD Guidelines in this Instruction Guide would be a duplication and unnecessary. We would recommend to eliminate any MERD/Command Center references in this Instruction Guide.

#### **Page 25 - Changes to "Bullets" under Materials**

- Hard wired/Cable reel communication equipment
- Water based theatrical smoke generator(s)

#### **Page 27 - Smoke Room Exercise**

Remove all suggested items and insert bullet;

- Items normally found or seen in an underground mine

#### **Page 29 - Additional "Bullet" under materials**

- Don Mitchell's: Mine Fires, Prevention, Detection, Fighting - Third Edition

**Page 29** - Change the last sentence in "Note" under objectives to;

- This training should be conducted under the direction (or with the assistance of) someone with underground mine fire experience.

**Page 33** - Change "Note" to read;

- Where possible, MSHA strongly recommends this exercise be conducted at a mine firefighting training center. This training should ONLY be conducted under the direction (or with the assistance of) someone with underground mine fire experience.

**Page 37** - Additional "Bullet" under Materials

- MSHA SM 3

**Pages 41 thru 48 - Air Measurements**

Anemometer

1. The team will provide:

- Anemometer (digital anemometer prohibited)
- Measuring tape
- Timing device
- Pencil and paper

2. A team will be represented by two team members.

3. One team member will give a brief description of the device.

4. Upon completion of the description of the device, the 2nd team member will take a 1 minute air reading, turn off, read dials, correct by using manufacturer's table of corrections, take area measurements and report the velocity to the judge.

5. Both team members will calculate the cubic feet per minute and report that calculation to the judge.

Smoke Tube

1. The team will provide:

- Smoke tubes and aspirator bulb
- Measuring tape
- Timing device
- Pencil and paper

2. A team will be represented by two team members

3. The two team members will complete the following:

- Measure off a distance (distance determined by "local rules")

- One team member with smoke tubes will be stationed at the upwind point of the measured distance
- Second team member will be stationed at the downwind point of the measured distance with a timing device
- For this exercise, team member upwind will release 1 smoke cloud in each quarter point within the airway
- Team member downwind will time each smoke cloud to the downwind point
- Both team members will determine:
  - Average area
  - Velocity
  - Calculate cubic feet per minute
  - Report findings to the judge

## Magnehelic

### 1. The team will provide:

- Magnehelic
- Necessary port hoses and fittings

### 2. A team will be represented by two team members.

### 3. The two team members will complete the following:

- One team member will give a brief description of the device
- One team member will demonstrate how to zero the device
- The team will take a pressure reading from the intake or return side of a stopping on an exhaust or blowing fan ventilation system
- Report findings to the judge

## Page 49 - Additional "Bullets" under Materials

- IG - 7a (2013)
- Mitchell's "Mine Fires" Third Edition
- National Mine Rescue Rules
- Nationwide Mine Rescue Skills Rules
- MSHA SM 3