

Mississippi State Fire Academy **Confined Space Rescue Operations Level Skill**

NFPA 1006 7.2.5 Objective: 2017 Ed.

Primary Task: Control Hazards of a Confined Space

PERFORMANCE EVALUATIONS & INSTRUCTION SHEET

Performance Steps

- 1. The ability to utilize personal protective equipment;
- 2. Place scene control barriers.
- 3. Operate atmospheric monitoring equipment.
- 4. Use and confirm calibration of detection equipment and acquire representative samples of the space.
- 5. Ventilate a confined space.
- 5. Identify & isolate dangerous forms of energy.
- 7. Mitigate physical and atmospheric hazards.

INSTRUCTIONS TO THE CANDIDATE

The candidate, given a Lock-Out / Tag-Out tool kit, an air monitor(simulator), and a simulated hazardous condition shall perform the follwing tasks: 1. Demonstrate air monitoring sequence & state acceptable conditions. 2. Control designated hazardous energy affecting the space. 4. Apply appropriate Lock-Out device. 5. Apply apprpriate Tag-Out tag with all required information. Verification that the hazards have been isolated and controlled

Air Monitoring & Sequence

Full Points- (all must apply)

- Given a calibrated air monitor, candidate shall demonstrate turning on air monitoring device in a clean, non hazardous atmoshere
- Candidate shall demonstrate fresh air "zero-out" calibration of the air monitoring device Candidate shall demonstrate general site and perimeter monitoring to establish protective
- zones • Candidate shall demonstrate air monitoring in the correct order (Oxygen, Flammability,
- Toxicity) Acceptable Entry Conidtions

- Full Points- (all must apply)
 - Candidate demonstrates knowledge of the acceptable entry ranges (Oxygen-19.5% to 23.5%, Flammability-10% of LEL, Toxicity-PEL)
 - Given a specific substance and proper reference material, candidate shall recognize and
 - state the acceptable ranges and physical properties of said substance

Hazard Control & PPE Selection

- Full Points- (all must apply)
 - · Candidate shall verbalize the need for ventilation
 - · Candidate shall verbalize selection of proper PPE as needed with regards to CPC
 - Candidate shall verbalize selection of proper PPE as needed with regards to flash
 - protective clothing, FR, turnouts, and provisions for a flammable atmosphere
 - Candidate shall verbalize selection of proper level of respiratory protection
 - Candidate shall demonstrate continuous air monitoring and document any changes in atmosphere
 - Candidate shall verbalizes adequate decon plan for given product

Ventilation Plan & Procedure

Full Points- (all must apply)

- Candidate shall verbalize proper ventilation techniques as needed, based on confined space configuration and chemical properties of the given product
- (natural, positive, negative, combination, intrinsically safe, not short-circuited)
- · Possible flammable gases are directed away sources of ignition
- Possible toxic gases are directed away reponders and civillians

Application of Lock-Out Mechanism

Full Points- (all must apply)

- Candidate shall recognize and identify potential hazardous energy source
- Candidate shall perform the appropriate lock-out procedures in which applies to the given hazardous energy source
- · Candidate fails to notify on site personnel of lock-out potential hazardous energy source

Application of Tag-Out Documents

Full Points- (all must apply)

- · Candidate applies an appropriate tag-out device to the potential hazardous energy source
- Candidate chooses a tag-out device that is a clear warning to on site personnel
- Candidate chooses a tag-out device that is limited to one time use and ensures the
- potential hazardous energy source shall not be used until tag-out equipment has been removed

Verification of Control / Isolation

Full Points- (all must apply)

- Candidate verifies that all potential hazardous energy sources have been controlled with with the application of the chosen lock-out/tag-out device
- Candidate shall demonstrate continuous monitoring of equipment to ensure the applied
- lock-out/tag-out device is providing the level of safety needed

Safety Evaluation Criteria:

Full Points- (all must apply)

Candidate's monitoring, ventilaiton, PPE selection, & LOTO ensures a safe operation