

CONFINED SPACE STANDARD 1910.146(K)

**RESCUE & EMERGENCY
SERVICES**

RESCUE & EMERGENCY SERVICES

1910.146(K)(1)

- An employer who designates rescue and emergency services, pursuant to paragraph (d)(9) of this section, shall:
- Evaluate a prospective rescuer's ability to respond to a rescue summons in a timely manner, considering the hazard(s) identified;
- Evaluate a prospective rescue service's ability, in terms of proficiency with rescue-related tasks and equipment, to function appropriately while rescuing entrants from the particular permit space or types of permit spaces identified. Appendix F

RESCUE TEAMS PRIOR TO THE OSHA STANDARD

FIRE DEPARTMENTS PROVIDED RESCUE SERVICES

- NO TRAINING
- **NO GAS DETECTION EQUIPMENT**
- PPE ??
- RESCUE EQUIPMENT??

RESCUE TEAMS AFTER THE OSHA 1910.146 STANDARD

- TRAINING REQUIRED NFPA 1670 AND 1006 STANDARDS
- PPE ISSUED
- RESCUE EQUIPMENT PROVIDED

FATALITIES IN PRCS

- 90% OF ALL FATALITIES IN CONFINED SPACES WERE ATMOSPHERIC
- 67% ARE O₂ DEFICIENT
- 60% OF THE FATALITIES ARE RESCUERS

RESCUE SERVICES

- LOCAL FIRE DEPARTMENTS
- PRIVATE RESCUE TEAMS
- IN-HOUSE RESCUE TEAMS
- OUTSIDE CONTRACTOR RESCUE TEAMS

LOCAL FIRE DEPARTMENTS

- PERSONNEL PROBLEMS
- NO TRAINING
- NO EQUIPMENT
- NOT AVAILABLE ALL THE TIME

IN HOUSE RESCUE TEAM

- EQUIPMENT COST (EXPENSIVE)
- TRAINING COST
- REFRESHER TRAINING DIFFICULT
 - BASIC FIRST-AID
 - CPR
 - SCBA
 - GAS DETECTION
 - VENTILATION
 - ROPE RETRIEVAL SYSTEMS
- MEMBERS HAVE NO EXPERIENCE WITH RESCUE TACTICS

IN HOUSE RESCUE TEAM

- IF YOU ONLY HAVE A FEW PRCS ENTRIES PER YEAR THAT REQUIRE A RESCUE TEAM IT WOULD BE ADVANTAGEOUS TO HIRE A PRIVATE RESCUE TEAM
- IF YOU HAVE MANY PRCS ENTRIES PER YEAR IN-HOUSE TEAM WOULD BE COST EFFECTIVE

CONTRACTOR RESCUE TEAMS

- NOT PROPERLY TRAINED
- DO NOT HAVE THE REQUIRED RESCUE EQUIPMENT FOR THE SPACE
- THE TEAM WILL GO TO A DESIGNATED AREA AND STAND-BY
- MOST CONTRACTORS WILL HIRE NON FIREFIGHTER PERSONNEL (NO EXPERIENCE)

PRIVATE RESCUE TEAMS

- PERSONNEL ARE TECHNICAL RESCUE TRAINED FIREFIGHTERS
- PROPER RESCUE EQUIPMENT
- PROPER PPE
- INCIDENT COMMAND SYSTEM
- RESCUE PREPLANS
- PRE-ENTRY MEETING
- MONITOR THE SPACE DURING ENTRY
- VENTILATE THE SPACE DURING ENTRY
- ALL PERSONNEL WORK TOGETHER FOR SAFETY

CONFINED SPACE STANDARD

APPENDIX F

- What are the needs of the employer with regard to response time (time for the rescue service to receive notification, arrive at the scene, and set up and be ready for entry)?
- How quickly can the rescue team or service get from its location to the permit spaces from which rescue may be necessary?
- What is the availability of the rescue service? Is it unavailable at certain times of the day or in certain situations? What is the likelihood that key personnel of the rescue service might be unavailable at times?

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APPENDIX F

- Does the rescue service meet all the requirements of paragraph (k)(2) of the standard?
- Does the rescue service have the necessary skills in medical evaluation, patient packaging and emergency response?
- Does the rescue service have the necessary equipment to perform rescues?

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APPENDIX F

- If necessary, can the rescue service properly package and retrieve victims from a permit space that has a limited size opening (less than 24 inches (60.9 cm) in diameter), limited internal space, or internal obstacles or hazards?
- If necessary, can the rescue service safely perform an elevated (high angle) rescue?
- Does the rescue service have a plan for each of the kinds of permit space rescue operations at the facility? Is the plan adequate for all types of rescue operations that may be needed at the facility?

RESCUE EQUIPMENT FOR CONFINED SPACES

- TMX 412
- MULTI-GAS MONITOR



RESCUE EQUIPMENT FOR CONFINED SPACES

- VENTILATION FANS



RESCUE EQUIPMENT FOR CONFINED SPACES

- AIR SOURCE CART



RESCUE EQUIPMENT FOR CONFINED SPACES

- 10 MINUTE
ESCAPE PAK USED
WITH SUPPLIED
AIR
RESPIRATOR(SAR)



RESCUE EQUIPMENT FOR CONFINED SPACES



AIR SOURCE CART



10-MINUTE ESCAPE PAK



AIR LINE HOSE

RESCUE EQUIPMENT FOR CONFINED SPACES



HIGH ANGLE ROPE SYSTEMS

RESCUE TEAM COST

- AVERAGE COST OF THE RESCUE TEAM IS \$2,000. TO \$3,000. PER DAY DEPENDING ON TRAVEL
 - $\$2,500.00 \times 12 = \$30,000$. PER YEAR

FIRE & RESCUE TRAINING, INC.
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QUINCY, MA 02171

WE PROVIDE:

STAND-BY RESCUE TEAMS

- ALL NECESSARY EQUIPMENT
- PPE
- SAFETY PLANS
- MONITORING EQUIPMENT
- VENTILATION EQUIPMENT
- **C-SPACE RESCUE TEAM TRAINING**
 - IN-HOUSE RESCUE TEAMS
 - CONTRACTOR TEAMS
 - FIRE DEPARTMENTS