



Virginia Department of Fire Programs
Technical Rescue Division
CONFINED SPACE RESCUER – LEVEL II
Chapter 7 (7.2) NFPA 1006, 2013 edition
CONFINED SPACE TECHNICIAN
Chapter 7 (7.4) NFPA 1670, 2009 edition

Section 1 - ADMINISTRATIVE GUIDELINES

1.1 Course Description: Confined Space Rescuer – Level II

This program meets or exceeds the requirements for NFPA 1006 *Standard for Technical Rescuer Professional Qualifications*, Chapter 7, Level II. The student will learn to perform at the Technician Level as specified in NFPA 1670, *Standard on Operations and Training for Technical Search and Rescue Incidents*, Chapter 7.

This 24 hour program includes classroom and practical training coordinating, performing and supervising complex confined space rescue operations. Topics include hazard identification, equipment usage, confined space pre-planning, incident action plan development and implementation, complex rescue considerations, corrective measures for controlling hazards and advanced rescue techniques.

Students will receive a VDFP Certificate of Attendance upon successful completion of the program. In order to receive certification to the NFPA 1006 as a Confined Space Rescuer – Level II, students will need to successfully pass written and skills testing separate from this program.

1.2 Course Information:

This course meets or exceeds:

NFPA 1006 Standard on Technical Rescuer Professional Qualifications, 2013 edition Chapter 7.2
Confined Space Rescuer – Level II

NFPA 1670 Standard on Operations and Training for Technical Search and Rescue Incidents 2009 edition; Confined Space Technician, Chapter 7.4.

NFPA 1983 Standard for Life Safety Rope and Equipment for Emergency Services.

OSHA 29CFR 1910.146 – Permit Required Confined Space.

OSHA 29CFR 1910.147 – Lockout/Tag-out



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NFPA 1006 Standard

Course Correlation

- 7.2.1 Preplan a confined space incident
- 7.2.2 Develop an incident action plan
- 7.2.3 Identify and implement corrective measures for controlling hazards

Session 3 and 9
Session 4 and 8
Session 7

NFPA 1670 Standard

- 7.4.3(1) Develop hazard isolation and control requirements
- 7.4.3(2) Ensure rescue team members take part in medical surveillance
- 7.4.3(3) Plan response for entry into confined space
- 7.4.3(4) Implementing the planed response.

Session 2, 3, 4, 7, and 8
Session 5, 6, 7, 8, 9, and 10
Session 3, 5, 6, 8, 9, and 10
Session 7, 8, 9, and 10

1.3 Logistical Requirements of Host Jurisdiction

- 1) Classroom facilities
 - a. Suitable size, comfortable and meeting the needs to deliver course lecture.
 - b. Adequate and appropriate restroom facilities (to include training grounds).
 - c. Lighting able to be controlled for projector operation.
 - d. Tables and chairs for 24 students.
 - e. LCD Projector and screen, computer with remote mouse.
- 2) Horizontal and vertical confined spaces suitable for complex and complicated confined space entry (Out of sight); for example
 - a. 24” to 36” diameter piping
 - b. Holding tank or vessel
 - c. Training simulator
 - d. Underground vault
- 3) All hazards in and around the confined space have been identified, isolated, and controlled.
 - a. Facility to perform actual lock out/ tag out procedures
- 4) (2) Four Function Calibrated atmospheric monitors capable of detecting and continuous monitoring of the following:
 - a. Oxygen deficiency/enrichment
 - b. Flammability
 - c. Hydrogen Sulfide
 - d. Carbon Monoxide



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Adequate air supply for training operations:

- e. On-site SCBA/SABA refill capabilities, or
 - f. Remote site refill capabilities with 12 additional SCBA cylinders on-site for support.
- 5) Local point of contact with knowledge and authorized access of training sites to be used.

1.4 Required Student Materials/Equipment/Uniforms

- 1) PPE
 - a. NFPA rated fire helmet or technical rescue helmet
 - b. Steel toed boots
 - c. Gloves
 - d. Eye protection
 - e. Minimum long pants/long sleeve shirt with elbow/knee pads
(Optional long sleeve coveralls with elbow/knee pads or USAR turn out gear)
- 2) One SCBA/face piece (per student) with spare cylinder.

1.5 Course Pre-requisites:

- 1) Students **MUST** be 18 years of age.
- 2) Current minimum certification of VDFP Fire Attack - Essentials, Firefighter I or verification by student's agency/department satisfying OSHA 1910.134 PPE Respiratory Protection requirements for SCBA.
- 3) Successful completion of Virginia Department of Fire Programs *Introduction to Technical Rescue Module 1 and Module 2* programs.
- 4) Successful completion of Virginia Department of Fire Programs *Confined Space Rescuer Level I (Operations Level)* program.
- 5) Successful completion of Virginia Department of Fire Programs *Rope Rescue Level I (Rope Rescue Operations)* program.
- 6) Students must be a member in good standing with a recognized fire, EMS, or emergency services agency/department to apply to attend.
- 7) Students shall be psychologically, physically, and medically capable to perform assigned duties and functions at technical search and rescue incidents and to perform training exercises in accordance with of NFPA 1500 *Standard on Fire Department Occupational Safety and Health Program*, Chapter 10-Medical and Physical Requirements.

Technical rescue is psychologically and physically demanding work. Students must be capable of lifting heavy loads, working at various elevations and operating in potentially hazardous environments.



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1.6 Course Registrations

- 1) All students must be pre-registered in VDFP's Fire Service Training Records System (FSTRS) before being allowed to participate in the class.
- 2) Students will be required to sign a Virginia Department of Fire Programs *Notice of Acknowledgement* form verifying the students meets the course pre-requisites.
- 3) No unregistered students (walk-ins) will be allowed.
- 4) Class size is limited to 24 students.

1.7 Course Curriculum/Outline

Confined Space Rescuer Level II (Technician Level)

24 hour program

- | | |
|--|----------------------------|
| 1) Welcome/Introduction/Paperwork | 0.5 hours lecture |
| 2) Review | 1.5 hours lecture |
| A. Confined space hazards | |
| B. Atmospheric monitoring | |
| C. Entry permit program | |
| D. Management of uncomplicated rescues | |
| 3) Developing a confined space preplan | 1 hour lecture |
| 4) Develop incident action plan | 1 hour lecture |
| 5) Implement and manage incident action plan for Level I operations | 4 hours skills |
| 6) Complex rescue considerations | 4 hours lecture and skills |
| 7) Corrective measures for controlling hazards | 4 hours lecture and skills |
| 8) Develop incident action plan for Level II operations | 3 hours skills |
| 9) Implement and manage incident action plan for Level II operations | 3 hours skills |
| 10) Incident termination | 2 hours skills |

1.8 Reference Material and Supplemental Information

Confined Space Levels I and II, Browne and Crist, Delmar 2010

1.9 Course Completion Requirements for Students:

- 1) Students are required to attend 100% of the classroom and practical sessions.
- 2) Successful completion of all required skills as indicated in the course outline.
- 3) Students are required to successfully complete a "Skills Check-Off" sheet. Each skill is pass/fail, with two opportunities to complete each skill.