Course Title: Statewide WMD Response: Confined Space Rescue Operations

Course Duration: 40 Hours

Program: Special Operations Training Program

Level of Training: Operations

Course Prerequisites:
Statewide WMD Response: Rope Rescue Operations

Course Description: The scope of this course is to prepare local responders to operate as a local member of a regional team within the NIMS at a CBRNE (Chemical, Biological, Radiological, Nuclear, or Explosive) WMD Event requiring statewide response that has resulted in the need for a permit required confined space rescue. Confined Space Rescue Operations course has been designed in accordance with NFPA Standards. The class covers the federal and state regulations, use of specialized equipment for atmospheric monitoring, commercial entry and retrieval systems, and employment of rescuer constructed retrieval systems. Special emphasis will be given to rescuer safety, scene management, patient care and movement, and the construction and operation of retrieval systems. Simulated rescue evolutions involving various rescue problems will be conducted.

Course Content:

Module: 1
Title: Orientation

Terminal Learning Objectives:
At the conclusion of this module, the student will identify the applicable requirements and regulations pertaining to confined space rescue.
Module:  2
Title: Personal Protective Equipment

Terminal Learning Objectives:
At the conclusion of this module, the student will be able to identify, select, and use the proper protective equipment to perform tasks safely at confined space rescue incidents.

Module:  3
Title: Knots Review

Terminal Learning Objectives:
At the conclusion of this module, the student will demonstrate the use of knots in confined space rescue operations.

Module:  4
Title: Haul Systems and High Point Anchors

Terminal Learning Objectives:
At the conclusion of this module, the student will demonstrate the use of rope in confined space rescue operations.

Module:  5
Title: Monitoring

Terminal Learning Objectives:
At the conclusion of this module, the student will identify proper selection of equipment and apply the procedures outlined in 29 CFR 1910.146 to monitor the atmosphere within a Permit Required Confined Space.

Module:  6
Title: Ventilation

Terminal Learning Objectives:
At the conclusion of this module, the student will select the proper equipment and implement the procedures to properly ventilate a confined space.

Module:  7
Title: Isolation

Terminal Learning Objectives:
At the conclusion of this module, the student will choose the proper equipment and identify the proper method to isolate any particular hazard at a confined space.
Module: 8
Title: Patient Packaging

Terminal Learning Objectives:
At the conclusion of this module, the student will be able to properly package a patient involved in a confined space rescue.

Module: 9
Title: Rescue Operations

Terminal Learning Objectives:
At the conclusion of this module, the student will be able to identify the Incident Management System and related components as it pertains to confined space rescue.

Module: 10
Title: Incidents Involving Weapons of Mass Destruction (WMD)

Terminal Learning Objective:
At the conclusion of this module, the student will summarize the considerations at a WMD incident.

Module: 11
Title: Practical Scenario’s

Terminal Learning Objective:
At the conclusion of this module, the students will have conducted simulated rescues using techniques and equipment needed to properly perform confined space rescues.

Evaluation Strategy:
Written and practical skill testing will be conducted at the completion of the course.

Textbook:

Reading Assignments:
Day 1 – Chapters 1, 2, 11
Day 2 – Chapters 3, 4, 7
Day 3 – Chapters 5, 6, 8, 9
Reference:


Emergency Responder Guidelines, ODP 2002

Emergency Response to Terrorism-Job Aid, FEMA 2000

Emergency Response to Terrorism- Basic Concepts, FEMA 2002

NFPA 1006 Standard on Technical Rescuer Professional Qualifications, Chapters 5 and 7, 2008 ed.


U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health Pocket Guide to Chemical Hazards

U.S. Department of Labor, Occupational Safety Health Administration, 29 CFR 1910.146

U.S. Department of Labor, Occupational Safety Health Administration, 29 CFR 1910.147
Class Schedule

Day 1

Module 1  Orientation  30 minutes
Module 2  Personal Protective Equipment  30 minutes
Module 3  Knot Review  1 hour
Module 4  Anchors & Haul Systems  2 hours

Lunch

Practical Exercises

Knot Drill 3.1  1 hour
Anchor, Haul Systems Drill 4.1  3 hours

Day 2

Module 5  Monitoring  45 minutes
Module 6  Ventilation  45 minutes
Module 7  Isolation  30 minutes

Practical Exercises

Monitoring Drill 5.1  30 minutes
Ventilation Drill 6.1  30 minutes
Isolation Drill 7.1  30 minutes
Communications Drill 9.1  30 minutes

Lunch

Practical Exercises

Entry Procedures Drill 9.2  2 hours
Vertical Rigging/Non-Entry Drill 4.2  2 hours
**Day 3**

Module 8  Patient Packaging  30 minutes
Module 9  Rescue Operations  45 minutes
Module 10  Weapons of Mass Destruction  30 minutes

Tabletop Scenarios  45 minutes

Practical Exercises
- Patient Packaging Drill 8.1  45 minutes
- PPE Drill 2.1  45 minutes

**Lunch**

Practical Exercises
- Tank Car – Tripod Drill 4.3  2 hours
- Aerial Apparatus Drill 4.4  2 hours

**Day 4**

Practical Exercises
- Grain Bin Drill 4.5  2 hours
- Tank Car - Ladder Jib Drill 4.6  2 hours

**Lunch**

Module 11  Practical Scenarios
- Tank Scenario 11.1  2 hours
- Hopper Scenario 11.2  2 hours

**Day 5**

Final Exam and CEQ's  2 hours
- Final Scenarios 11.3  3 hours

**Lunch**

Final Scenarios 11.3  3 hours