

H S E

HEALTH

SAFETY

ENVIRONMENT



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Confined Space Entry

Duration: 5 Days



Introduction:

The overall objective of this training module is to provide awareness and general knowledge of Confined Spaces.

Course Objectives:

By the end of this course delegates will be able to:

- Understand the hazards of confined spaces
- Become knowledgeable in the OSHA safety standards for safeguarding confined space entries
- Learn the duties and responsibilities of the confined space entry participants
- Achieve familiarity with atmospheric testing equipment and entrance equipment

Course Outline:

Introduction to confined spaces

- Definition of Confined Spaces
- Specifications of Confined Spaces
- Permit Required Confined Spaces

Typical Hazards in Confined Spaces

Atmospheric Hazards

- Oxygen Deficiency
- Combustible
- Flammable
- Explosive
- Toxic Gases / Vapors / Dust / Mists
- Physical Hazards in confined spaces
- Unguarded Machine Parts
- Thermal Hazards
- Exposed Electrical Circuits
- Slip/Fall Hazards
- Engulfment
- Entrapment
- Hazardous Chemicals

- Biological Agents
- Noise
- Vibration

Other Possible Hazards in Confined Spaces

- .Rodents / Snakes / Spiders
- Poor Lighting
- Wind
- Weather

Controlling Hazards of Confined Spaces

- Lockout – Tagout
- Disconnecting Pipes
- Ventilation
- Cooling
- Dumping
- Rinsing - Flushing
- Fall Arrest Gear
- Air Sampling

Confined Space Permit Program - review form procedure

Ventilation Requirements

- Purge if necessary
- 20 air changes per hour

- Atmospheric Monitoring
- Acceptable Entry Conditions
- Company Confined Space Entry permit posted
- Oxygen 19.5 – 23.5%
- Lower Explosive Level 0%
- Toxic fumes/vapors less than PEL
- No engulfing material in space
- No hazardous chemicals or material
- Drained - Flushed
- Rescue Team Available on Site
- Attendant is present and equipment in place
- Space Temperature <100 degrees F.
- LOTO Electrical components in space
- LOTO Mechanical Components in space
- LOTO All pipes to and from space
- Ventilation Established & Maintained
- Additional conditions required on permit
- Additional conditions required by Entry Supervisor
- Duties
- Entry Supervisor
- Attendant

- Entrant
- Rescue Team
- Entry & Rescue Equipment
- Air Monitor
- Fall Arrest System
- Ventilation Equipment
- Lighting Systems
- Communication Equipment
- Body Harnesses & Life Lines
- Working (man) Winch

DAY FIVE

- Entry Procedures
- Conduct Pre-Entry Briefing
- Assemble and check equipment
- Establish Acceptable Entry Conditions
- Conduct initial air
- Execute & Complete Entry Permit
- Station Entry Attendant
- Establish Monitoring of Atmosphere
- Establish Communication
- Execute Hot Work Permit if applicable

- Post Confined Space Entry Permit
- Enter Space
- Post-entry debrief if problems were encountered

Rescue Procedures

- Rescue team required at access during entry to IDLH environments
- Rescue Team must be trained on specific type confined spaces
- Self-Rescue
- Non-entry Rescue