



## CONFINED SPACE ENTRY AND OPERATIONS | COURSE NO. ZT-CONFINEDSPACE (16 HRS)

This 2-day Confined Space Entry & Operations training course is technical in nature, comprehensive, performance based and instructed by an inhouse trained and certified professional instructor. Our Technical Training incorporates information and skills, required by all applicable regulatory bodies. This course is recommended for those individuals who are responsible and/or identified to perform work in or around identified confined spaces such as confined space **supervisors**, confined space **attendants** and confined space **entrants**.

### Course Format:

Training is instructor led multimedia presentation incorporating instructor demonstration, student manual and learner practical confined space entry evolutions. Training will run 8 hours each day. A written exam will be administered and the learner will receive a certificate of completion with training contact hours, signed and dated by the MSA Instructor upon successful completion of the scheduled training class.

### The 2-day course is comprised of the following:

- Definitions and examples
- Discussion of the factors that explain why permit-required confined spaces can be so dangerous and require special training prior to their entry along with case studies of past incidents to illustrate
- Coverage of employer/contractor regulatory responsibilities when going to work in PRCS and in building a site-specific confined space program
- Discussion of the types of hazards that can turn a regular space into a "permit-space" including:
  - The hazards of low-oxygen atmosphere
  - Flammable atmospheres
  - Atmospheres where occupational exposure to specific substances exceed OSHA permissible limits
  - Atmospheres that are termed "immediately dangerous to life or health" if the worker remains within them, potentially preventing their ability to escape in an emergency
  - Engulfment
  - Entrapment
  - Other hazards: falls, electrical hazards, thermal hazards
- An introduction to the Hazard Communication (HazCom) standard and how it applies to learning about the dangers of working with different substances in confined spaces
- Planning for safe entry into a PRCS utilizing (1) OSHA's "hierarchy of controls: and a (2) pre-task plan for safety"
- Use of job safety controls for entry into potentially unsafe spaces such as:
  - "Lockout/Tagout"
  - Portable gas instruments for Space Air Quality Monitoring
  - Space Atmospheric "Normalization" and the equipment needed
- An introduction to the different kinds of respiratory protection as well as the elements of a program that must be in place to make it successful:
  - Respirators for entry into IDLH conditions and rescue situations, including the airline respirator and SCBA
- Procedures to be followed when a permit-space is to be entered
- Additional confined space access, safety and rescue equipment including:
  - The full body harness (including selection, inspection and use)
  - Entry winches and self-retracting lifelines with rescue capabilities
  - Davit arms and tripods
  - Confined space communications equipment
- Procedures to be followed post-entry, including permit close-out and equipment/program maintenance
- Confined space rescue
- **Hands-on practice** with confined space procedures and equipment in a controlled training environment
  - Routine entry following the permit process
  - Non-entry rescue
  - Basics of entry rescue