



Confined Spaces for Entry Supervisors

COURSE: NR-33 –INITIAL SAFETY TRAINING FOR CONFINED SPACES SUPERVISORS

SCOPE AND APPLICABILITY:

This training applies to all professionals who work directly or indirectly in spaces not intended for human occupation, with limited means of entry and exit, used for storing material with the potential to engulf or drown the worker, in the position of authorized workers, lookouts or even as entry supervisors into confined spaces in accordance with the Brazilian regulations.

REGULATIONS & STANDARDS

- NR33 - Safety and Health at Work in Confined Spaces;
- OSHA 1910.146 - Permit-required confined spaces;
- IMO Resolution A.1050 (27) - Revised Recommendations for Entering Enclosed Spaces Aboard Ships;
- NBR16577 - Confined Space - Prevention, Procedures and Protection Measures;
- NBR14606 - Service stations - Entrance into confined space.

COURSE CONTENT:

1. Confined Space Definitions
2. Identification of Confined Spaces
3. Recognition, assessment and control of risks
4. Operation of Used Equipment:
 - a. Lighting system.
5. Procedures and use of the Entry and Work Permit;
6. Criteria for indication, operation and use of equipment for risk control:
 - a. Collective and individual protection equipment;
 - b. Mechanical ventilation equipment.
7. Knowledge about Safe Practices in Confined Spaces:
8. Occupational Health and Safety Legislation:
 - a. Applicability of Standard NBR 16,577;
9. Respiratory Protection Program;
10. Classified Areas;
11. Notions of Rescue and First Aid;
12. Rescue Operations.

COURSE DESIGN:

Theoretical – 20 hours
TOTAL: 40 hours

Practical – 20 hours

PREREQUISITE(S):

None.

MINIMUM/MAXIMUM NUMBER OF DELEGATES

This course requires a minimum of 1, and a maximum number of 12 trainees.

To offshore trainings, the course number of attendees will comply with the vessels/rig necessity.

SPECIFICATION ABOUT POSSIBLE TASKS DEVELOPED ACCORDING TO THIS COURSE

The Works That can be Carried out in Confined Spaces Will be According to the Qualification and Training Required for the Function of the Member, Such as: Repairs, Cleaning, Maintenance, Hot Work, Electricity Services, Cold Work, Inspections, Rescue/Salvage, Among Others.

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SPECIFICATION ABOUT POSSIBLE TYPES OF CONFINED SPACES EXISTENT IN THIS COURSE

- Silos;
- Oil Contaminated Tanks;
- Marine Diesel Tanks;
- Water Tanks;
- Sewage Tanks;
- Mud Tanks;
- Ballast Tanks;
- Drain Tanks;
- Chan Lockers;
- Crane Pedestal;
- Empty Spaces with or Without Particulate Materials;
- Empty Spaces with or Without Synthetic Fluids;
- Other Confined Spaces Registered in the Company Units.

MAIN SAFETY ISSUES:

- Task planning;
- Communication between the members;
- The guard never enters the confined space;
- On-site continuous gas testing;
- Rescue team and rescue equipment positioned on site;
- Explosion-proof equipment;
- Correct use of each of the equipment involved in measurements, work and rescue;
- Strictly fulfill the work permit.

REQUIRED EQUIPMENT:

- Gas meter;
- Parachute belt;
- Rescue winch;
- Fall arrest device;
- Tripod;
- Self-Contained Breathing Apparatus (SCBA);
- Autonomous set for exhaust;
- Radio communicator;
- First aid materials: Splints, cervical collars, stretchers, Manual Respirators (AMBU), etc.

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PROCEDURE FOR PRACTICAL EXERCISES:

- Reinforce with the students the safety procedures adopted by the company/contractor;
- It is totally forbidden to perform practical exercises in real confined spaces. The training must be performed in a safe environment.
- Fulfillment of the work permit used onboard;
- Test the atmosphere around and in three levels before entering into it;
- Isolation of the simulated area of the confined spaces;
- Positioning of the teams (supervisor, watchmen, authorized workers and rescue team);
- Show how to use each equipment correctly: Harness, the importance of gloves, etc;
- Show how to perform a positive and negative fit test on the mask;
- Test and demonstrate the use of SCBA;
- Simulate an entry using the guide cable and tripod;
- Test the rescue situation and procedures with the watchman;
- The watchman will perform the simulated rescue using the tripod and rescue winch;
- The rescue team will make moves using the stretcher while using SCBA and will transfer the simulated victims to another place, showing techniques to keep the victim safe during the transport.

CERTIFICATION:

Training certificate signed by responsible Engineer accredited by Brazilian CREA.

CERTIFICATE VALIDITY PERIOD:

1 year.