



Confined Spaces for Authorized Workers and Watchmen

COURSE: NR-33 – INITIAL SAFETY TRAINING OF CONFINED SPACES FOR AUTHORIZED WORKERS AND WATCHMEN

SCOPE AND APPLICABILITY:

Enable students to previously organize and recognize the types of work in confined spaces; recognize, assess and control risks; choosing the correct equipment and correct usage protocols; learn the procedures for using work permits; rescue and first aid.

REGULATIONS & STANDARDS

- NBR 14606 & NBR 16577;
- NR 33;
- OSHA 1910.146;
- IMO Resolution A.1050(27).

COURSE CONTENT:

1. Confined spaces definitions;
2. Recognition, Assessment and Risk Control;
3. Indication Criteria, Operation and Use of Equipment;
 - Applicability of NBR 16.577;
 - Ventilation Equipment;
 - Protection Equipment (collective and personal).
4. Respiratory Protection Program;
5. Procedures and Use of Entry and Work Permit;
6. Rescue and First Aid Basics.

COURSE DESIGN:

Theoretical – 8 hours;

Practical – 8 hours;

Total: 16 hours.

PREREQUISITE(S):

None.

MINIMUM/MAXIMUM NUMBER OF ATTENDEES

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

For offshore trainings, the course number of attendees will comply with the vessels/rig needs.

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.

Confined Spaces for Authorized Workers and Watchmen

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;
- Strict Communication;
- The watchman never enters in the confined space;
- Continuous gas testing into and around the confined space;
- Rescue Equipment ready to be used in surroundings of the confined spaces;
- Certified and calibrated Explosion proof equipment;
- Correct use of each equipment mentioned during the training and available on site;
- Strictly fulfill the work permit.

REQUIRED EQUIPMENT FOR PRACTICAL EXERCISES:

- Gas Tester;
- Safety Harness;
- Tripod;
- Rescue Winch compatible with the tripod;
- Stop shout device;
- Self-Contained Breathing Apparatus;
- Scape masks and cylinders;
- Radio communicator;
- Basic First aid equipment: Cervical collars, splints, stretchers, respirators.

Confined Spaces for Authorized Workers and Watchmen

PROCEDURE FOR PRACTICAL EXERCISES:

- Demonstration of the use of EX-certified Equipment and its importance for confined spaces;
- Use and demonstration of gas measuring equipment;
- Simulation of pre-entry practices: Risk analysis, ventilation equipment (if any), gas testing, etc;
- Practical demonstration of confined space entry equipment: Mounting and handling tripods, guide wires, safety belts, fall arresters, etc.;
- Simulation of entry into confined spaces (in a situation and in a controlled environment, never in a confined space that has identified substantial risks);
- Simulation of the use of different communication methods between workers;
- Positioning and demonstration of rescue equipment;
- Clarifications on the use of the Entry and Work Permit.
- In the first aid part, a demonstration will be done with a dummy or volunteer on how to perform immobilization, transport and positioning for CPR and ventilation, as well as demonstration of related equipment such as stretcher, respirator, splints, etc.

CERTIFICATION:

Training certificate signed by responsible Engineer accredited by Brazilian CREA.

CERTIFICATE VALIDITY PERIOD:

1 ano.