

COURSE: AUTHORIZED GAS TESTER

SCOPE AND APPLICABILITY:

This course will explain the minimum requirements to be able to test and identify gas levels, and how to act appropriately for the safety of the workers and conditions. The goal is to provide rescue measures for personnel in case of emergency situations and how to operate standard testing machines.

REGULATIONS & STANDARDS

- OSHA 29 CFR Part 1915;
- NORSOK standard S-002 Rev. 4, August 2004;
- Atlantic Canada Offshore Petroleum Industry Standard Practice for the Training and Qualifications of Personnel 2013-0007 4.2 Atmospheric Gas Tester Training;
- HSE UK Approved Code of Practice (ACOP) Safe work in Confined Spaces 1997;
- HSE Guidance on Permit to Work Systems;
- Health and Safety at Work Act 1974 (HASAWA);
- Netherlands Oil & Gas Exploration and Production Association (NOGEP) Sec 1.4 Rev.9, 01-10-2014.

COURSE CONTENT:

1. General Hazards;
2. Physical properties of chemicals;
3. Gas Normative;
4. The hazards and effects of flammable, toxic(H₂S) and inert gases;
5. The hazards of oxygen deficiency and enrichment;
6. Causes and nature of oxygen deficiency and how to test in oxygen deficient environments
7. Hazards associated with toxic, flammable and oxygen deficient/enriched atmospheres;
8. Working with permits, ICCs and entry certificates;
9. Where and when gas tests are required;
10. Selection, care and use of PPE for gas testing;
11. Gas testing principles;
12. Gas detectors – instrument types and selection criteria;
13. Pre-checks to be carried out on a meter;
14. Gas detectors – care and use;
15. Colorimetric Method (gas detector tubes) – principles of operation and performance characteristics;
16. Gas testing strategies and principles of atmospheric testing;
17. Control methods and mitigation;
18. Site specific instruction to become competent on the use of the gas detection equipment and procedures being used on the installation.

COURSE DESIGN:

Theoretical – 6 hours
TOTAL: 12 hours

Practical – 6 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.

MAIN SAFETY ISSUES:

- Attention with difference of scales between equipment and gases to be tested;
- Equipment must be calibrated and suitable with the gases to be checked.

REQUIRED EQUIPMENT:

- Gas Detector;
- Procedures of gas testing;

PROCEDURE FOR PRACTICAL EXERCISES:

- Identify different types of gas detector;
- Simulate different procedures involving gases of different densities;
- Simulate a detection with an equipment that was made to be used with another type of gas and show how to proceed in this kind of situations in accordance with the gas conversion tables.

CERTIFICATION:

Training certificate.

CERTIFICATE VALIDITY PERIOD:

Recommendable: 3 year(s).