

OBSRDL021

## Authorised Gas Tester

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**Duration** 240 Minutes

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**Target group** Oil & Gas Industry

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**Prerequisites** No prerequisites are required to sit this course.

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**Objective**

Unit 1 - Authorised Gas Tester

- LO1: Confined space criteria
- LO2: The type of operations being tested for flammable and toxic gases
- LO3: The hazards of operations within an oxygen-enriched, oxygen-deficient, toxic or flammable environment
- LO4: Carrying out a suitable and sufficient risk assessments
- LO5: Understand the safe systems of work, how to work within the safe system of work and the associated responsibilities
- LO6: The implications of statutory and organisational requirements
- LO7: Interpreting operational requirements
- LO8: How to select, use and care for PPE and RPE
- LO9: How to access and interpret the relevant operational instructions
- LO10: The operating principles of atmosphere monitoring and measuring equipment and frequently observed failure modes
- LO11: The strengths and weaknesses of the various types of atmospheric flammable and toxic gas detection equipment
- LO12: How to correctly select between aspirating and non-aspirating detectors to obtain a representative sample of the atmosphere being tested
- LO13: Equipment required for testing for hydrocarbons in inert atmospheres
- LO14: Gas detector pre-start checks
- LO15: Determining the extent of the test boundaries
- LO16: Calibrating the instruments used in atmospheric testing
- LO17: Sources of assistance in the event of damaged or defective equipment
- LO18: How to interpret the results, to include both normal and abnormal
- LO19: How to document the results and advise relevant personnel

Unit 2 - Testing for Flammable Gas in Preparation for Hot Work

- LO1: Hot work (any operation involving naked flames or producing heat and/or sparks or any operation that has spark potential)
- LO2: The type of operations being tested for flammable and toxic gases
- LO3: The principles of hot work gas testing
- LO4: The hazards and properties of flammable gases
- LO5: Acceptable levels of flammable gases and the correct amount of oxygen
- LO6: Carrying out a suitable and sufficient risk assessment before testing activities
- LO7: Using safe systems of work and understanding the associated responsibilities
- LO8: The different types of detectors used for the flammable product
- LO9: How to set up the relevant detector for each gas testing application and confirm its correct functioning
- LO10: The range and frequency of tests and monitoring and retesting requirements
- LO11: Where to site portable or transportable equipment that will be used to continuously monitor the atmosphere

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### Unit 3 – Confined Space Testing

LO1: The hazards and properties of flammable and toxic gases

LO2: The behaviour of different gases

LO3: The range and frequency of tests and monitoring and retesting after the initial entry

LO4: Acceptable levels of flammable and toxic gases and the correct amount of oxygen

LO5: The implications of WEL for toxic gases and LEL for flammable gases

LO6: How to set up the relevant detectors for each gas testing application and confirm functioning correctly

LO7: Performing gas tests in sequence

LO8: How to obtain representative atmosphere sample

LO9: Taking various samples to locate varying concentrations of gases and vapours

LO10: Importance of sampling confined spaces at a distance

LO11: Testing flammable gases in inert atmospheres

LO12: Where to site portable or transportable equipment that will be used to continuously monitor the atmosphere

### Unit 4 - Gas Monitoring

LO1: Responsibilities of the Fire Watch

LO2: Responsibilities of the Standby Person

LO3: Responsibilities of the Gas Monitor role

LO4: Impact of environmental changes on working conditions

LO5: The importance of checking that the controls on the equipment are as specified

LO6: Sources of assistance and specialist support

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## Contents

The course is available in the following languages: English; Brazilian Portuguese; Spanish; Danish; Norwegian

This course has been designed to equip delegates with the knowledge to conduct gas testing within confined spaces and awareness of associated confined hazards. The authorised gas tester role is critical in testing for and ensuring safe working atmospheres, in particular: permit-controlled confined spaces, and prior to and during hot work.

Our course has been developed in bitesize learning chunks for each topic. At the end of each module, there will be an assessment. Delegates will need to pass each module at 100 percent.

The aim of this course is to teach you the requirements associated with gas detection. On successful completion, you will have the basic knowledge necessary to allow you to operate as an Authorised Gas Tester. You will be given two attempts at each module, and you must score 80 percent to pass.

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## Exam

The assessment is taken during the course and is within the expected duration.