

OPITO Approved Authorised Gas Tester Syllabus

Course information

- The Authorised Gas Tester Standard provides delegates with an understanding of:
 - a) What is required for those involved with performing a test for oxygen, flammable and toxic gases up to and including working in confined spaces
 - b) What is required for those involved with testing for flammable gas in preparation for hot work
 - c) What is required for those who provide safety watch duties by the ongoing monitoring of a hot work site
- The course consists of two days classroom based training with a written assessment and an on-site practical example (*if available*)
- Delegates will be provided with all the necessary documentation and manuals
- Delegates will require relevant PPE for the practical element of the course
- All personnel who participate in gas testing training must be physically and mentally capable of participating fully

Course syllabus

The course contains the following modules:

- Module 1 - Authorised gas tester
- Module 2 - Testing for flammable gas in preparation for hot work
- Module 3 - Confined space testing
- Module 4 - Gas monitoring for hot work sites

For detailed learning outcomes of each module, please see overleaf

The duty holder/employer is responsible for ensuring that personnel appointed to the Authorised Gas Tester role have received sufficient training and gained relevant experience to undertake the role(s) competently and safely. The duty holder/employer must ensure that, apart from the provision of theory training, that further workplace training is provided and workplace competence assessment is conducted prior to formal appointment.

For further information or to arrange a course, please contact JMS Consultants on 01472 720158 or at postbox@jmsconsultants.co.uk

Module 1 - Authorised Gas Tester

- *Confined space criteria*
- *The type of operations being tested for flammable and toxic gases*
- *The hazards of operations within an oxygen-enriched, oxygen-deficient, toxic or flammable environment*
- *Carrying out a suitable and sufficient risk assessments*
- *Understand the safe systems of work, how to work within the safe system of work and the associated responsibilities*
- *The implications of statutory and organisational requirements*
- *Interpreting operational requirements*
- *How to select, use and care for PPE and RPE*
- *Accessing and interpreting operational instructions*
- *The operating principles of atmosphere monitoring and measuring equipment and failure modes*
- *The strengths and weaknesses of various types of atmospheric flammable and toxic gas detection equipment*
- *Correct selection of aspirating or non-aspirating detectors to obtaining representative atmosphere sample*
- *Equipment required for testing for hydrocarbons in inert atmospheres*
- *Gas detector pre-start checks*
- *Determining the extent of the test boundaries*
- *Calibrating the instruments used in atmospheric testing*
- *Sources of assistance during the event of damaged or defective equipment*
- *Interpreting normal and abnormal results*
- *Documenting the results and advising relevant personnel*

Module 2 - Testing for flammable gas in preparation for hot work

- *Hot work (any operation involving naked flames or producing heat and/or sparks or any operation that has spark potential)*
- *Type of operations being tested for flammable and toxic gases*
- *The principles of hot work gas testing*
- *The hazards and properties of flammable gases*
- *Acceptable levels of flammable gases and the correct amount of oxygen*
- *Carrying out a suitable and sufficient risk assessment*
- *Using safe systems of work and understanding the associated responsibilities*
- *The implications of organisational and statutory requirements*
- *Detectors used for the flammable product*
- *How to set up the relevant detectors for each gas testing application and confirm functioning correctly*
- *The range and frequency of tests and monitoring and retesting requirements*
- *Where to site portable or transportable equipment that will be used to continuously monitor the atmosphere*

Module 3 - Confined space testing

- *The hazards and properties of flammable and toxic gases*
- *The behaviour of different gases*
- *The range and frequency of tests and monitoring and retesting requirements after initial entry*
- *Acceptable levels of flammable gases and the correct amount of oxygen*
- *The implications of WEL for toxic gases and LEL for flammable gases*
- *How to set up the relevant detectors for each gas testing application and confirm functioning correctly*
- *Performing gas tests in sequential order*
- *How to obtain representative atmosphere sample*
- *Taking various samples to locate varying concentrations of gases and vapours*
- *Importance of sampling confined spaces at a distance*
- *Testing flammable gases in inert atmospheres*
- *Where to site portable or transportable equipment that will be used to continuously monitor the atmosphere*

Module 4 - Gas monitoring for hot work sites

- *Hot work (any operation involving naked flames or producing heat and/or sparks or any operation that has spark potential)*
- *Confined space criteria*
- *The type of operations being tested for flammable and toxic gases*
- *Roles and responsibilities of the Fire Watch*
- *Roles and responsibilities of the Stand By person*
- *Responsibilities of the Gas Monitor role*
- *How to select, use and care for PPE*
- *How to work within the safe system of work*
- *The hazards and properties of flammable gases*
- *The behaviour of different flammable and toxic gases*
- *The potential arrival of flammable gas or vapour clouds at the hot work site*
- *Impact of environmental changes on working conditions*
- *Importance of checking controls on the equipment are as specified*
- *Importance of regular communication*
- *Sources of assistance and specialist support*
- *Completion of relevant documentation*

|