



Course Outline



Course No
HS-OP05

AUTHORIZED GAS TESTER

- Duration:** 3 days – Theory and Practical
- Course Size:** Minimum – 4 /Maximum – 12 (participants)
- Language:** This course can be presented in Thai (ภาษาไทย) and English
- Price** Please contact

Course Overview

This program is designed to meet the initial onshore training and assessment requirements for personnel preparing to work as Authorized Gas Testers.

Who should attend

This program is designed to meet the initial onshore training and assessment requirements for personnel preparing to work as Authorized Gas Testers.

Course Outline

This course consists of a series of theory presentation followed by practical demonstrations and on successful completion of the training, the delegate will be able to demonstrate an understanding of:

- how to select, use and care for PPE for different oxygen deficient atmospheres, toxic and flammable gases - to include both sight and hearing protection, gloves, footwear, hard hats, coveralls and respiratory protection
- the strengths and weaknesses of the various types of oxygen, flammable and toxic gas detection equipment - to include fixed, portable and personal monitors
- the implications of organizational and statutory requirements - to include HASAWA, Confined Space Regulations 1997, COSHH and the relevant codes of practice.
- the implications of EH40 (HSE Occupational Exposure Limits) for flammable gases, to include OES, MEL, LTEL, and STEL as applicable
- the hazards associated with working within a toxic, flammable or Non-Life supporting atmosphere
- how to work both with and within the Permit to Work system
- how to interpret operational requirements - to include policies, procedures, instructions, codes of practice and standards
- the range and frequency of tests and their acceptable limits
- the principles of gas testing as applied to confined space entry.
- the type of production operation being tested for oxygen deficient, flammable and toxic gases.
- how to access and interpret the relevant operational instructions
- the hazards and properties of flammable and toxic gases including oxygen deficiency and enrichment, nitrogen and specialist materials appropriate to the location.
- the different types of detectors used for the relevant application
- how to set up the relevant detector for each gas testing application and confirm its correct functioning
- how to correctly select between aspirating and non-aspirating detectors to obtain a representative sample of the atmosphere being tested
- the operating principles of atmosphere monitoring and measuring equipment, including their strengths, weaknesses and frequently observed failure modes
- the potential cumulative effects of operations within an oxygen deficient, toxic or flammable environment
- how to document the results and advise relevant personnel
- how to interpret the results, to include both normal and abnormal



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- the acceptable levels of flammable and toxic gases and the correct amount of oxygen.
- the behaviour of different gases – to include heavier than air & lighter than air behaviour and “neutral buoyancy” effect
- where to site ongoing monitoring equipment for vessel entry
- how to obtain a representative atmosphere sample from a range of confined spaces

Authorized Gas Tester Level 2

On successful completion of the training, the delegate will be able to demonstrate an understanding of:

- how to select, use and care for PPE for different toxic and flammable gases - to include both sight and hearing protection, gloves, footwear, hard hats and coveralls
- the strengths and weaknesses of the various types of atmospheric flammable gas detection equipment - to include transportable, portable and personal monitors
- the implications of organizational and statutory requirements - to include HASAWA, COSHH and the relevant codes of practice.
- the implications of EH40 (HSE Occupational Exposure Limits) for flammable gases and other relevant standards, to include OES, MEL, LTEL, and STEL as applicable.
- how to work both with and within the Permit to Work system
- how to interpret operational requirements - to include policies, procedures, instructions, codes of practice and standards
- the range and frequency of tests and their acceptable limits
- the hazards and properties of flammable gases – to include gas and vapour cloud movement
- the type of production operation being tested for flammable gases.
- the hazards and properties of flammable gases including oxygen deficiency and enrichment and specialist materials appropriate to the location
- the different types of detectors used for the flammable product
- how to set up the relevant detector for each gas testing application and confirm its correct functioning
- how to correctly select between aspirating and non-aspirating detectors, relevant to the atmosphere being tested
- the operating principles of atmospheric monitoring and measuring equipment including their strengths, weaknesses and frequently observed failure modes.
- how to document the results and advise relevant personnel.
- the principles of hot work gas testing as applied to the work area
- how to interpret the results, to include both normal and abnormal
- the acceptable levels of flammable gases and the correct amount of oxygen.
- the behaviour of different gases – to include heavier than air & lighter than air behaviour and “neutral buoyancy” effect
- where to locate ‘sentinel styled’ portable or transportable site monitoring equipment for optimum benefit

Authorized Gas Tester Level 3

On successful completion of the training, the delegate will be able to demonstrate an understanding of:

- how to select, use and care for PPE for different toxic and flammable - to include both sight and hearing protection, gloves, footwear, hard hats and coveralls
- the implications of organizational and statutory requirements - to include HASAWA, EH40 (HSE Occupational Exposure Limits) for flammable gases, COSHH and the relevant codes of practice.
- how to work both with and within the Permit to Work system
- how to interpret operational requirements - to include policies, procedures, instructions, codes of practice and standards



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MOG Industry Training

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- the hazards and properties of flammable gases
- the type of production operation being tested for flammable gases.
- the importance of checking the controls on the equipment is as specified
- the importance of regular communication
- who to contact if there is a problem you cannot resolve
- what documentation needs to be completed
- how a flammable gas or vapour clouds could arrive at the hot work site
- the behaviour of different gases – to include heavier than air & lighter than air behaviour and “neutral buoyancy” effect.

Certification

Satisfactory completion of each practical element is a prerequisite for successful award of certification.

Schedule

On request

Location	Laemchabang ✓ Songkhla ✓ Langkrabue ✓
Prerequisites	In date medical
Competency	Written & Practical Assessments
Certificate	OPITO
Included	Breaks ✓ Lunch ✓ Hand Outs ✓ Other: