



# Authorised Gas Tester

Book at [maersktraining.com](https://maersktraining.com)

## AVAILABLE LANGUAGES

English, Portuguese

The purpose of the Authorised Gas Tester course is to ensure that participants preparing for the role of gas tester have the appropriate skills and knowledge to safely carry out gas tests that verify oxygen, toxic gas and flammable gas levels in the atmosphere of a confined space. The course covers the applicable legislation, safe systems of work, the permit-to-work system, gas hazards and characteristics, the use and testing of gas detectors, and respiratory protective equipment.

## Essential Information

### Prerequisites

Participants must be medically fit. No prior training is required.

### Who is it for?

This training is designed for personnel who are preparing to take on the role of Authorized Gas Tester, professionals responsible for carrying out atmospheric testing (oxygen, flammable and toxic gases) before and during entry into confined spaces. It is suitable for operators, technicians, supervisors and safety professionals working in the oil and gas, maritime and industrial sectors.

## Course content

### • Confined Spaces and Legislation

Confined space definitions, limited entry and exit, applicable legislation and associated regulations, including NR-33, NR-01 and NR-06.

### • Gas Hazards and Characteristics

Oxygen deficiency and enrichment, inert and toxic gases, H<sub>2</sub>S, exposure limits, LEL/UEL, flash point, auto-ignition, gas behaviour, density and purging.

### • Respiratory Protection and PPE

Escape sets, SCBA, airline breathing apparatus, filter respirators, PPE selection and pre- and post-use inspection requirements.

### • Safe Systems of Work

Risk assessment, hierarchy of control, ALARP, isolation certificates, Permit to Work, supervision, Toolbox Talks, standby personnel and rescue planning.

### • Atmospheric Testing

Gas detector types, calibration, bump testing, pre-use checks, ventilation, gas-testing sequence, sampling, response time, interpretation and continuous monitoring.

### • Practical Activities

Gas detector pre-use checks, completion of the Gas Test Certificate and inspection of respiratory protective equipment.

## Key Learning Objectives

**01** L01 — Describe confined spaces, the role of the Authorized Gas Tester and the legislation and regulations applicable to confined space entry.

**02** L02 — Explain safe systems of work for confined space entry, including risk assessment, isolation, Permit to Work, standby person duties and rescue planning.

**03** L03 – Describe gases that may be present in confined spaces, including their characteristics, behaviour, exposure limits and effects of overexposure.

**05** L05 – Identify respiratory protective equipment and PPE used during gas testing, including their limitations and inspection requirements.

**04** L04 – Carry out atmospheric testing for oxygen, flammable and toxic gases, including detector checks, ventilation, sampling, interpretation and continuous monitoring.