

# GT01: Gas Detection



**COURSE DURATION:** 1/2 day

## COURSE OVERVIEW

This GT01 training course is a perfect combination of conventional and technical traits & provides focus as on the principles of gas/vapour behaviour, the effects of gas build-up, flammable and toxic detection levels, specific detectable gases, and the detection techniques used. This course also covers the principles used in gas detection. Delegates will also learn how to specify portable gas detection equipment and how to design a safety protocol for detecting different common gases.

## WHO SHOULD ATTEND?

This qualification is suitable for candidates who will require to work in different industrial processes e.g., confined space, oil & gas drilling, petrochemical, mining, water, sewerage & other utilities work, however, delegates from multiple disciplines are also welcome in this course to oversee the gas detection process implementation.

## TRAINING DELIVERY METHODS

Combining a perfect balance between theoretical and practical learning, a variety of teaching methods are used to ensure that candidates successfully complete the course. The practical session will engage participants to use and operate portable gas detection instruments.

All our instructors are fully qualified as assessors and are trained first aiders, giving the assurance your staff are in safe hands. Professional delivery methods, coupled with expert industry knowledge guarantee that learning outcomes are met.

## AIMS & OBJECTIVES

The 4-Hour/Half Day Gas Detection Course is designed to provide the delegates with the necessary skills required for safe Gas Detection in a hazardous environment. To ensure a sound knowledge of the potential hazards involved, equipment to use, and emergency procedures and response with the use of Gas Detection Monitors both in theoretical teaching and practical work.

## PRE-COURSE REQUISITES

There are no specific pre-course requisites, however, delegates must have a clear understanding of both written and spoken English language.

## COURSE CONTENT

The course gives candidates knowledge and competence in the following areas:

- Introduction
- Relevant legislation – EH40
- Other applicable standards
- Risk Assessments
- Hazards of gases
- Physiochemical thermodynamics of gases
- The human respiratory system
- Gas detection devices / chemical symbols
- Action on alarms
- STEL, TWA, TLV/PEL of different gases
- Precaution to consider for gas monitoring
- Monitoring units
- Understanding the uses of gas detectors
- Calibration/Maintenance requirements and the importance of bump testing

## QUALIFICATION

- Qualified candidates will be able to perform gas detection manoeuvres under a safe system of work.
- Breathe Safety Accredited
- Certification & ID card
- Valid for 3 years