

# CTC GAS MONITORING COURSE



This course can be completed as a stand-alone course or as a module of the Course in Safe Working in Confined Spaces

▶ **Nominal duration 4 hours**

▶ **Maximum number of attendees per course is limited to 6**

Successful participants will receive a certificate (“...has fulfilled the requirements for a Course in Gas Monitoring”) and individual assessment records.

▶ **Venue**

On site at client premises or at a CTC venue

▶ **Target Group**

All persons who are required to monitor the atmosphere.

The aim of the course is to provide attendees with the knowledge and skills required to be able to: -

- Identify the normal atmospheres’ composition and know how potential gas hazards can cause the atmosphere to change.
- Identify the characteristics of various gases and their associated hazards
- Operate an electronic gas detector.
- Demonstrate atmosphere monitoring techniques and describe the responsibilities of personnel monitoring the atmosphere.

## LEARNING OUTCOMES & ASSESSMENT CRITERIA

### Learning outcome 1

Discuss the composition of the atmosphere at your workplace.

#### Assessment criteria

1.1 Describe the composition of a normal (clean air) atmosphere.

1.2 Identify atmospheric contaminants at your workplace that can cause oxygen deficiency, toxic or flammable atmospheres.

### Learning outcome 2

Describe the health and safety effects relating to selected relevant atmospheric contaminants at your workplace.

#### Assessment criteria

2.1 Interpret some of the specialised terms and

acronyms used in connection with atmosphere monitoring (TWA, LEL, peak limitation, STEL, safe oxygen level, ignition triangle, acute, chronic).

2.2 Describe effects of, and symptoms of, oxygen deficiency and toxic contaminants found at your workplace.

2.3 Describe the affect of extended exposure (i.e. 12 hour shifts) on TWA values.

2.4 Explain the actions to be taken when different alarms are activated on the gas monitor due to contamination of the atmosphere.

### Learning outcome 3

Discuss characteristics of atmospheric contaminants at your workplace.



Be Smart. Be Safe.

Combined Training & Consulting Pty Ltd.

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## LEARNING OUTCOMES & ASSESSMENT CRITERIA CONTD.

### Assessment criteria

3.1 Define vapour density in very basic terms.

3.2 State which atmospheric contaminants at your workplace are heavier than air, and which are lighter than air.

3.3 State which atmospheric contaminants at your workplace are toxic, which are flammable and which could cause oxygen deficiency.

### Learning outcome 4

Identify different types of gas detection and atmosphere monitoring that are available.

### Assessment criteria

4.1 List the various types of equipment available.

4.2 Explain how to determine which type of equipment is best suited to your workplace and situation.

4.3 Determine if expert assistance is required.

4.4 List the advantages and disadvantages of electronic gas detectors.



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