Users of Compressed Gases and Equipment
Personnel using compressed gases and equipment require information on the safe use of the gases and equipment in line with current H & S guidelines and Codes of Practice.

Compressed Gas User Safety Course
Interactive course on compressed gases and equipment with topics including:
Operator behaviour, gas properties & hazards, cylinder identification & data, associated equipment, flammable toxic & special gases, emergency procedures, PPE, cylinder storage & handling, legislation & Codes of Practice.
As appropriate, manifold operations, cylinder transport.

Multiple choice questions are held throughout with a final test requiring 75% pass rate.

Onsite Practical – 1 hour session in groups of no more than 6 persons
The trainer will demonstrate, and all learners will be given the opportunity to undertake, before-use checks, regulator fitting, manual handing of cylinders.
(Includes question and answer session when taken following e-Learning requires an additional 30 minutes.)

Certification

Learners successfully completing both theory and practical course:
- Certificate of Achievement
- Gas Safety Passport Card

Certification is valid for 3 years after which refresher instruction is recommended.

Where e-Learning or webinar takes place without practical session:
- Certificate of Achievement (pdf emailed on completion)

Delivery Options	**Price** (VAT at standard rate applicable)	**Duration**	**Max no. of learners**
Onsite classroom & up to 2 practical sessions	£995 + £85 per learner	Classroom session 3.5 hour Practical sessions 1 hour	12
e-Learning	£55 per learner	1.5 hours	Unlimited
Real-time Webinar	£595 + £55 per learner	3.5 hours	24
Onsite practical day (following e-Learning or webinar)	£995 + £30 per learner	up to 4 @ 1.5 hour practical sessions	24

Onsite Facilities Required
- Suitable room equipped with a screen or monitor and electrical supply
- Access to compressed gases and equipment for practical session
- To participate in practical session cylinder manual handling and regulator fitting, learners must wear PPE according to local site conditions, the minimum being safety shoes, gloves and goggles.

Compressed Gases Learning Objectives

At the end of the training all learners will:

1. Have established their current level of knowledge
2. Understand the manufacture and filling processes of cylinder gases
3. Understand the properties of common compressed gases with direct safety implications
4. Understand the relationships between Pressure, Volume and Temperature of gases in sealed containers
5. Understand the effects of Oxygen deficient and enriched atmospheres, with particular reference to confined spaces
6. Understand the hazards of compressed Oxygen when exposed to contamination with oil-based substances
7. Know the definition and hazards of pressure, and its relevance to cylinder/hose/pipe construction with special reference to safety relief devices
8. Have a detailed knowledge of the hazards and properties of Oxygen, Inert and Flammable gases (as appropriate)
9. Understand the emergency procedures for flammable gases
10. Understand the hazards associated with the leakage of LPG and the need for correct storage of LPG cylinders
11. Have a general knowledge of the hazards associated with Toxic and Corrosive gases, associated safety devices and hazard nomenclature
12. Know how to handle gas cylinders safely and correctly
13. Know the hazards associated with incorrect manual handling of gas cylinders
14. Understand general Risk Assessment and Safe Systems of Work procedures
15. Know how to identify cylinder gases correctly, and understand Special Gas labelling
16. Understand the general requirements for safe storage and transport of gas cylinders
17. Be able to carry out safe and thorough leak detection
18. Understand the general requirement for, and function of, compressed gas system safety devices such as flashback arrestors and non-return valves
19. Understand the differences between Single and Two-Stage regulators and make an informed selection of the correct regulator for specific laboratory processes
20. Understand gas equipment date marking
21. Know the correct Personal Protective Equipment to wear
22. Be able to undertake a Before-Use safety assessment of their work area
23. Be able to perform regulator Before-Use Checks and fit/remove a regulator to/from a cylinder
24. Understand the general function and operation of manual and semi-automatic compressed gas manifold systems with reference to the general principles of manual cylinder changing techniques (as appropriate).