

CHEM02: Compressed Gas Cylinder Safety

Course Overview

This half day course provides delegates with an overview of safe working when using compressed gas cylinders (including gases which are liquefied under pressure). The session will involve theoretical discussions and practical demonstrations with an opportunity for delegates to gain some practical experience of cylinder transport and operation under supervision of an experienced industry professional.

The course will cover the construction of different types of gas cylinders and the various accessories required to operate them successfully including cylinder regulators, reducers and other safety devices such as flashback arrestors. Selecting the correct accessories for a task / gas will also be discussed along with inspection techniques and testing of cylinder fittings. Cylinder identification will also be covered including common cylinder colours, markings and labelling.

Correct methods for transport and storage of compressed gas cylinders including manual handling techniques and use of cylinder trolleys and restraints. Safe use and control of cylinders will be discussed in detail along with examples of how to identify faults and react safely in the event of a cylinder emergency e.g. a falling cylinder, leak or failure.

Learning Outcomes

- Legal background and supplier responsibilities
- Safe identification of cylinder contents
- Gas cylinder valve connections
- Types of cylinders (compressed, liquefied and dissolved gases)
- Before use safety checks
- Safety in storage and handling of gas cylinders
- Safe transport of gas cylinders
- Properties and potential hazards of gases on site
- Action to be taken in the event of an emergency
- Practical demonstrations and workshop

Who Should Attend?

Anyone involved in the storage, transport and use of compressed gas cylinders including inert gases, flammable gases (including those used as fuels or for welding) and toxic / corrosive gases should attend this course to develop the necessary underpinning knowledge to work safely with compressed gas systems. No prior technical knowledge will be assumed, however course delegates may find it helpful to have an understanding of how gas cylinders are used in their area of responsibility

To book your place, please send an e-mail to safety@glasgow.ac.uk including your name, school / department and staff number. If the upcoming dates aren't suitable you can ask to be put on the waiting list for future courses.

This course will be delivered by an external provider and will be operated on a cost recovery basis at a rate of no more than £60+VAT per delegate.