

Liquid Nitrogen Safety Courses

- Cryogenic Gases Safety Awareness Workshop
- Liquid Nitrogen Decanting Practical
- E-Learning



Cryogenic Gases Safety Awareness Workshop

This half-day Instructor-led workshop provides safety awareness for all personnel who use, handle or store cryogenic liquids

Benefits

- Training delivered by highly skilled, industry trained, experienced course directors
- Efficiently ensure that staff gain awareness of cryogenic gas safety
- Cost-effective on-site training
- Staff are made aware of the hazards so that they can identify risks and adopt safe working practices

Workshop Overview

- Why do accidents occur?
- What's in the air?
- Expansion rates and oxygen deficiency
- The need for oxygen monitoring systems
- Team exercise - Inert gas rescue
- Hazards posed by cold - cryogenic burns
- The need for personal protective equipment
- Design of cryogenic vessels
- Hazards posed by pressure
- Safe handling of cryogenic vessels
- Safe storage of cryogenic vessels
- Potential oxygen enrichment hazards during decanting

Workshop price

Cryogenic Gases Safety Awareness Workshop
(3.5 hours)

£980 for up to 8 delegates,
additional delegates £95 per head up
to a maximum of 20 delegates.
VAT is payable at the standard rate.

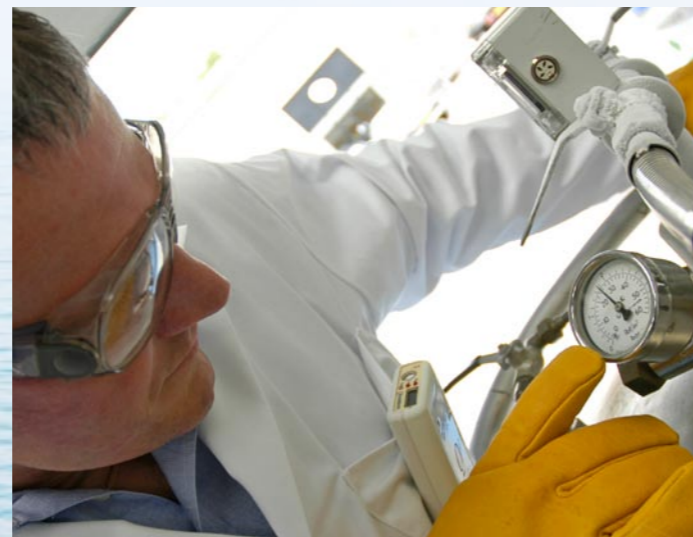
Who should attend?

- Anyone using, handling or storing cryogenic liquids
- Laboratory and other managers with operational responsibilities for safety
- Managers, supervisors and staff from all functions who are responsible for the safe use of cryogenic liquids within their department
- Risk managers and anyone responsible for health and safety

What you will learn

The workshop will enable participants to:

- Correctly identify cryogenic vessels
- Recognise how cryogenic vessels operate
- Be aware of the hazards of asphyxia
- Appreciate the hazards posed by cryogenic liquids
- Reduce risks when using cryogenic liquids
- Be aware of the need to move vessels with care
- Recognise the need for ventilation and monitors
- Wear appropriate PPE when using cryogenic liquids
- Manage the safe storage of cryogenic liquids
- Introduce safe working practices into their workplace



Liquid Nitrogen Decanting Practical

This 2 hour Instructor-led practical provides instruction on the correct procedures for the decanting of liquid nitrogen from a pressure vessel or working flask

Benefits

- Training delivered by highly skilled, industry trained, experienced course directors
- Staff are made aware of the hazards so they can identify risks and adopt safe working practices
- Product knowledge also promotes efficient gas use avoiding unnecessary wastage

Practical Overview

- Review the properties of liquid nitrogen
- Team exercise - Pipework identification, design and operation of cryogenic vessels
- Filling and location of vessel
- Practical session conducted utilising a low-pressure vessel and either a working flask or dewar provided by the customer
- The need for personal protective equipment
- The need for oxygen monitoring systems
- Valve identification
- Pre-fill checks
- The need to decant at the correct vessel pressure
- Delegate practical session

Please note

- All delegates must be supplied with, and wear, appropriate PPE during the practical session i.e. eye protection, safety shoes and cryogenic gloves.
- All delegates must have completed the appropriate online or Instructor-led safety awareness workshop before they can participate in the practical. In the case of Instructor-led Safety Awareness Workshops, the practical is usually held in the afternoon of the same day.

Who should attend?

- Anyone decanting liquid nitrogen
- Laboratory and other managers with operational responsibilities for safety
- Managers, supervisors and staff from all functions who are responsible for the safe use of liquid nitrogen within their departments
- Risk managers and anyone responsible for health and safety

What you will learn

The practical will enable participants to:

- Correctly identify cryogenic vessels
- Recognise how cryogenic vessels operate
- Identify key safety features on cryogenic vessels
- Be aware of the hazards posed by cryogenic liquids
- Undertake pre-use safety checks on vessels and dewars
- Safely vent excessive vessel pressure prior to decanting
- Control hazards when decanting cryogenic liquids
- Be aware of the need for safe decanting procedures
- Recognise the need for ventilation and monitors
- Introduce safe working practices into their workplace

Practical price

Liquid Nitrogen Decanting Practical (2 hours)

£765 for up to 8 delegates, additional delegates £95 per head up to a maximum of 12 delegates. VAT is payable at the standard rate.

E-Learning

Packages are available for those clients who need a more flexible, accessible method of training which delivers high quality affordable training without the need to gather employees together in a classroom. This method of training is ideal for single users, new starters or as refresher training.

Online Safety Training for Liquid Nitrogen users is available at www.bocsafetytraining.com

Additional Information

Course materials

For instructor led courses, all delegates will receive a certificate of attendance and comprehensive workshop literature for continued reference purposes in the workplace. This includes relevant Standard Operating Procedures if a practical workshop has been attended.

BOC Cryospeed Sales and Service Operators

All users of cryogenic gases should be fully aware of their safe use and our workshops are a great way to learn how to assess and manage risks. Further, as a BOC customer your Cryospeed Operator is on hand to answer day-to-day questions regarding the storage and handling of cryogenic gases. Each Operator is highly trained and ready to give practical advice to make sure that BOC's customers use our products safely and efficiently.

Contact Details

If you wish to discuss your training requirements, please call a training advisor on 01270 758 892 (+44 1270 758 892 from ROI). For the on-line safety awareness course, visit www.bocsafetytraining.com



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