

## Liquid Nitrogen Decanting Practical



**This 2 hour Instructor-led workshop provides practical instruction on the correct decanting of liquid nitrogen from a pressure vessel into a working flask**

### Benefits

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

### Workshop overview

- Review of 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 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

*All delegates must be provided with, and wear, appropriate PPE during this practical workshop i.e eye protection, safety shoes and cryogenic safety gloves*

### Workshop 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.

*Please note it is essential that all delegates have completed the relevant Safety Awareness Workshop before attending this practical workshop*

### 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 decanting of liquid nitrogen within their departments
- 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
- 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
- Wear appropriate PPE when decanting cryogenic liquids
- Introduce safe working practices into the workplace



gas safety training brought to you in association with Gas Safe

## First step...choose the relevant Safety Awareness Workshop...



All delegates must attend the appropriate Instructor-led or on-line safety awareness workshop before they can participate in a practical workshop

- Cryogenic Gases Safety Awareness Workshop
- Using Liquid Nitrogen Safely (on-line workshop)

## Specific e-Learning packages

### What training modules are available?

- Using Liquid Nitrogen Safely
- Using Oxy-fuel Gases Safely
- Using Compressed Cylinder Gases Safely (non oxy-fuel)
- Using Medical Gas Cylinders Safely  
(available Including or excluding Cylinder Storage & Manifold Systems)



e-Learning offers 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 is ideal for single users, new starters or as refresher training.



To discuss your training requirements or specific requirements, such as On-site Advisory survey  
Please contact us

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