

# HYDROGEN SKILLS ACADEMY

## Hydrasun Hydrogen Systems Pressure Testing Including Pneumatic Testing and Helium Leak Detection

The risks associated with pneumatic testing are much greater than in a hydrostatic scenario. Like hydrostatic testing, there is the threat that an object will be ejected ballistically, however the force is likely to be several times greater. This full day training programme has been developed to give delegates an awareness and understanding of best practice associated with working safely on pressure systems, and in particular working safely while carrying pressure testing activities.

This course will also help attendees understand the principles and the importance of ensuring that an enclosed system is tested and certified as leak free before placing into service. On successful completion, the delegate will be awarded a Hydrasun certificate of attendance.

### COURSE DURATION

- 1 day

### PRE-REQUISITE

- Attendees must have completed pressure testing training previously. A certificate of completion, or a letter of endorsement must be provided before training commences

### CERTIFICATION

- On successful completion the attendees will be awarded with a Hydrasun certificate of attendance

### TRAINERS

- Our trainers and assessors have been certified by external accreditation bodies

### COST

- Price on application – maximum 5 delegates per course

### COURSE DETAILS

#### What is Pneumatic Pressure Testing

- Hydrostatic v Pneumatic pressure test
- Stored energy comparison
- Pneumatic pressure testing
- Safe distance
- When it goes wrong

#### Risks Associated with Pneumatic Pressure Testing

- Preparation for non-bunkered testing

#### Recording Pressure Test Activities

- Tagging & labelling
- Test certificate
- Test failures

#### Tracer Gas Leak Detection - Definition

- What are the rules
- Why leak test
- Leak testing considerations
- Leak test uses

#### Specific Detection Methods

- Visual
- Pressure/vacuum decay
- Acoustic
- Tracer gas

#### Overview of Test Methods

- Outside in
- Inside out
- Envelope technique
- Vacuum technique
- Sniffing technique
- Accumulation technique
- Leak rates

#### Safe Systems of Work

- Preparing a SSOW

#### Practical Activities

- Fault finding
- Gas system setup
- Pressure testing
- Leak testing
- Multi choice 20 question theoretical exam