

## The Installation & Maintenance of Compressed Gas Supply Systems

### Aim & objectives

To qualify delegates to EAL Level 3 in "The Installation & Maintenance of Compressed Gas Supply Systems "

The objective of this qualification is to enable the delegate to demonstrate that they have the technical knowledge and practical skills required to complete a safe and proper installation of a compressed gases system. This shall be in accordance with Pressure Systems Regulations and Industry codes of practice.

### Day one

#### Level 3 Award - Applied Compressed Gases Safety Classroom session

Interactive course with topics including:

Legislation & Codes of Practice, operator behaviours, gas properties & hazards, PPE requirements, cylinder identification & labelling, gas equipment pre-use, safe light up and shut down checks, emergency procedures, cylinder storage, handling & transport. Operation of Manifold systems.

#### Practical

The trainer will demonstrate, and all learners must undertake, before use checks, regulator fitting, manual handling of cylinders, oxy-fuel light up & shut down procedures.

Multiple choice questions are held throughout with a final test paper requiring 85% pass rate.

### Day two

#### Level 3 Award – The Installation & Maintenance of Compressed Gas Supply Systems Classroom Session

AM session	PM session: An introduction to installation in practice
<ul style="list-style-type: none"> <li>• Define: Competence, bar pressure, the parts of a pressure system, installers duties, manifold systems pressure system – maintenance repair &amp; modification</li> <li>• Regulations: Pressure equipment directive, Pressure equipment regulations, CE/UKC markings</li> <li>• PSSR</li> <li>• Written schemes &amp; P&amp;IDs</li> <li>• Safety practices &amp; documentation</li> <li>• Purchasing &amp; storage</li> <li>• Pipework selection and labelling</li> <li>• CDM regs</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying required parts for an installation using; scope of work, drawings, materials list &amp; manufacturers information sheets</li> <li>• Wiring contact alarm gauges</li> <li>• Flammable gas installations</li> <li>• Install auto change manifold</li> <li>• Pressure testing</li> <li>• Commissioning</li> <li>• End user training</li> <li>• Maintenance</li> <li>• Fault finding</li> </ul>



### Day three

## Level 3 Award – The Installation & maintenance of Compressed Gas Supply Systems *Practical session*

All Learners are required to complete practical activities (shown in the table below) in bays which simulate real pressure systems.

Learners must demonstrate they can successfully complete key tasks as laid out in the exam paper. The exam paper contains critical tasks which must be achieved in order to successfully pass the course – learners will be given two opportunities to complete these critical tasks.

1: Installation Practice	Correctly install compressed gas supply components and fittings. To include the identification of faulty, non-compliant or incorrectly specified equipment
2: Pressure Testing	Perform a pressure test using a prescribed pressure test checklist
3: Commissioning	Demonstrate the ability to correctly purge the system and safely commission the installed system up to the outlet
4. End User Training	Demonstrate safe use of the system to a potential customer
5. Maintenance	Identify and replace equipment as per manufacturer's recommendations or following a written scheme
6. Fault Finding	Fault find whilst reviewing an existing assembled system
7. Administration	Explain the information required to be gathered at the 'customer site visit' stage

### Certification

Learners successfully completing both theory and practical course will receive:

- EAL Level 3 Award – Installation of Maintenance of Compressed Gas Supply Systems
- EAL Level 3 Award - Applied Compressed Gases Safety
- PGS Certificate of Achievement
- Gas Safety Passport Card



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

### Pre-requisites, learner requirements & information:

- Learners must have industry relevant experience to register on this course – if you are unsure if a candidate meets this requirement, then please ask
- This course is delivered at our partner site in Redditch
- Tools will be provided; please feel free to bring along adjustable spanners & leak detector fluid
- To participate in the practical session, learners must have PPE; to include safety shoes, goggles, gloves & flame retardant overalls
- Learners must submit their exam papers for both Awards before leaving on day 3
- Refreshments & lunch provided



**Price**

£895 + vat per learner

**EAL Awarding Organisation Certification.**

EAL (Excellence Achievement Learning Ltd)

PGS has been independently verified by EAL as a provider of Compressed Gases Safety workshops. PGS training delivery, assessment, quality assurance, customer support documentation and procedures have been found to meet their exacting standards.

For further information or to book training please contact:

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