

COMPRESSED AIR AND VACUUM TECHNICIAN

Level 3

Duration **24 months (excluding EPA)**



INTRODUCTION

This programme trains apprentices to install, maintain and optimise compressed air and vacuum systems, ensuring safe, efficient and reliable operation. It equips learners with practical engineering skills to support continuous industrial processes across a range of sectors.



A COMPRESSED AIR AND VACUUM TECHNICIAN WILL;

- Plan, organise and prioritise work to meet customer requirements and agreed timescales
- Install compressed air and vacuum equipment using approved pipework systems and methods
- Commission newly installed compressed air and vacuum systems to ensure correct operation
- Service compressed air, vacuum and associated air treatment equipment in line with specifications
- Diagnose and repair mechanical, electro-mechanical, electrical and electronic faults within compressed air and vacuum systems
- Monitor system performance and energy usage, adjusting controls to achieve optimum efficiency
- Provide technical and regulatory advice to customers to support safe and compliant operation
- Complete required documentation and reports, including risk assessments, job reports and fault diagnosis records



JOB ROLES

- Air treatment technician
- Mechanical technician
- Installation engineers
- Product support engineers
- Service technicians



DELIVERY MODEL

- Average 1 day per week of knowledge delivery - online
- Monthly learner reviews online
- 10-12 weekly site visit to employer location to do face-to-face review
- NVQ Level 3 and British Compressed Air Society (BCAS) training included as part of the programme (see overleaf)



KNOWLEDGE MODULES

- | | | |
|--------------------------------------|---|--|
| • Health & Safety | • Managing Resources | • Electrical and Electronic Principles |
| • Engineering Maintenance Procedures | • Work Effectively both Individually and Part of a Team | • Electro, Pneumatic & Hydraulic Systems Devices |
| • Electronic Fault Finding | • Mechanical Principles | |



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NVQ MODULES

Mandatory

- Complying with statutory regulations and organisational safety requirements
- Using and interpreting engineering data and documentation
- Working efficiently and effectively in engineering
- Handing over and confirming completion of maintenance or installation activities

Optional (Pathway ICF Compressed Air)

- Either Installing compressed air equipment or Commissioning compressed air equipment
- Or Maintaining compressed air systems and equipment (If this option is selected, the learner must also complete either the Installing or Commissioning pathway).



BRITISH COMPRESSED AIR SOCIETY (BCAS) TRAINING COURSES:

Working Safely with Compressed Air (WSWCA)

Compressed Air Treatment Technology (CATT)

Compressed Air System Technology (CAST)

These courses are designed to provide structured, industry-recognised learning materials and assessments that align closely with the apprenticeship's KSBs.



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