

Standard overview

This occupation is found in the advanced manufacturing engineering and engineering construction sectors. The broad purpose of the occupation is to carry out metal fabrication work using rolled steel joists, columns, channels, steel plate and metal sheet etc. Work includes manufacturing installations, cranes, platforms, aircraft, automotive and machinery parts, sheet metal enclosures, equipment supports, and anything that can be fabricated out of metal.

Fabricators use a large range of metals including steel, aluminium and titanium at a range of thicknesses. The size and weight of the fabrications can range from components that can easily be picked up by hand, to massive structures that require several cranes to manipulate. In their daily work, an employee in this occupation interacts with planners, supervisors,

inspectors, designers, welders, pipe-fitters, fitters, machinists, riggers, steel erectors, stores personnel, painters and many others involved in manufacturing, production, maintenance and repair. An employee in this occupation will be responsible for the quality and accuracy of their own work whilst ensuring it conforms to a relevant specification such as an engineering drawing or an international standard. Fabricators are also responsible for the health, safety and environmental (HS&E) protection of themselves and others around them.

This apprenticeship standard is suitable for school leavers, those wishing to progress in their career or build upon existing skills.

Standards – the benefits

At Learning Unlimited, we provide high quality training and development solutions for organisations across the UK. The Level 3 apprenticeship standard offered by Learning Unlimited brings together a range of benefits. From start to finish, we work with your business to tailor our training to meet your needs. With an excellent track record in delivering training to a variety of organisations and businesses, we can find a solution to help you take your staff to the next level.

Level 3

APPRENTICESHIP STANDARD

Metal Fabricator



For careers in Metal Fabrication

- Metal Fabricator
- Assembler
- Fabrication Manager
- Coded Welding
- Specialist Welder (e.g. aerospace, underwater or electrical maintenance)

Entry requirements

- Apprentices will be required to achieve Level 2 English and maths prior to taking their End Point Assessment.

Duration

- 42 months

Workplace behaviours development

- Personal responsibility and resilience.
- Work effectively in teams.
- Effective communication and interpersonal skills.
- Focus on quality and problem solving.
- Continuous personal development.

End Point Assessment (EPA)

- Practical observation.
- Professional discussion with supporting portfolio.

Skills and knowledge development

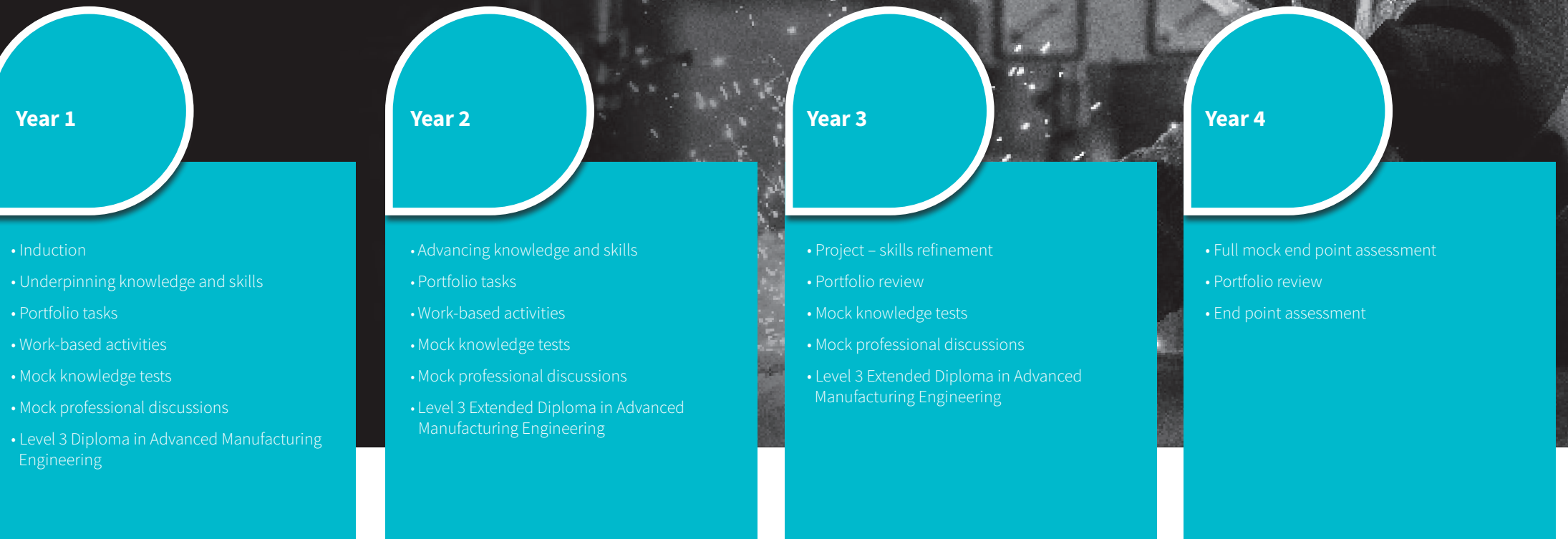
- The importance of complying with statutory, quality, organisational and health and safety regulations.
- Understand general engineering mathematical and scientific principles, methods, techniques, graphical expressions, symbols formulae and calculations.
- The structure, properties and characteristics of common materials.
- The tools and techniques available for cutting, shaping, assembling and finishing materials.
- Inspection techniques that can be applied to check shape and dimensional accuracy.
- Know the principles, procedures and testing of different joining techniques (mechanised or manual).
- Identify and follow correct metal work instructions, specifications, drawing etc.
- Cut and form metal for the production of fabricated products.
- Produce and assemble metal products to required specification and quality requirements.
- Identify and follow correct joining instructions, specifications, drawing etc.
- Weld joints in accordance with approved welding procedures and quality requirements.

Qualifications or Industry Accreditation gained

- Depending on the chosen pathway, apprentices can gain industry recognition and the chance to apply for accredited status
- IMechE - Eng Tech or IET - Eng Tech

Delivery plan and apprentice progression

Throughout the apprenticeship, the apprentice is supported by a work-based tutor and employer mentor to ensure that they are progressing at the right pace and developing the skills and knowledge expected.



Off-the-job training

Every apprenticeship includes off-the-job training – equivalent to one day per week. This takes place during time normally spent at work but does not include the usual daily duties and responsibilities carried out as part of their normal role. It can consist of work and tasks ranging from projects, lectures and seminars to day release, blended learning and training to use specialist equipment.

It can form part of regular weekly sessions or be combined for larger blocks of time, depending on the approach that works best for the employer.

The delivery plan may be subject to change.

Progression

On a successful completion, apprentices will be eligible for the following job roles or further studies:

- Metal Fabricator
- Assembler
- Fabrication Manager
- Coded Welding
- Specialist Welding e.g. aerospace, underwater or electrical maintenance
- Opportunities to progress within employment or to a higher level qualification or apprenticeship are available.