



University of Central Lancashire

Training 2000

INFORMATION FOR LEARNERS

General Welder Apprenticeship

Level 2

Welding is a way to make high strength joints between two or more parts. General Welders use high electrical energy to form an arc. Manual dexterity is essential in controlling the arc, which is used to melt metals, allowing them to fuse together to form a structurally sound weld.

Welding is used extensively and in almost every sector of industry. There is a high demand for skilled General Welders in areas such as: automotive, marine, transport, general fabrication, construction and many more. General Welders produce items like components for cars; ships; rail vehicles; simple metallic containers; and steelwork for bridges, buildings and gantries.



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General Welder Level 2

Apprenticeship information

Duration

18 months - x3 four* week blocks

You may have to complete your English and Maths Functional Skills depending on your GCSE grades.

*duration may vary

Where will I study?

Training 2000 Blackburn

Entry requirements

A minimum of two GCSEs at grade 3 (D) or above in English and Maths. Other equivalent qualifications are acceptable

Our Apprenticeship includes:

- Training 2000 registration and pass
- Structured delivery programme
- Assessor visits and reviews in your workplace
- Synoptic / end point assessment

What you'll learn

Key knowledge:

- Be aware of the basic mechanical properties and weldability of welded materials.
- Understand the common arc welding processes, joint types (fillet, lap, butt, etc.) and positions.
- Understand the major components of welding equipment and the essential parameters for welding.
- Understand the terminology, operation and controls for the selected arc welding processes, joint types and welding positions.
- Identify and understand the causes of typical welding defects and how their occurrence can be reduced, for the materials and welding processes selected.
- Understand the functions of welding consumables and the requirements for correct storage and handling.
- Be able to identify and select correct welding consumables for each application.
- Understand and identify hazards and basic health, safety and quality requirements when welding.
- Know how to interpret and work to a welding procedure specification.
- Know the basics of welding quality documents and reporting systems.

Key skills:

- Produce good quality welds using two welding process/material type combinations (TIG, MMA, MIG/MAG, FCAW) and (Carbon and Low Alloy steel, High Alloy Ferritic/Martensitic Steel, Austenitic Stainless Steel, Nickel and Nickel Alloys, Aluminium and Aluminium Alloys) in two welding positions (Downhand, Horizontal, Vertical, Overhead).
- Attain a qualification in accordance with one of the following standards: ISO 9606 / ASME IX / BS4872 / AWS D1.1, determined by the employer. N.B. These qualifications are regarded as licences to practice in welding.
- Achieve a quality of work to meet international

standards for dimensional and surface inspection (Visual, Magnetic Particle Inspection and Dye Penetrant Inspection).

- Position, prepare and check the welding equipment.
- Receive, handle and maintain consumables
- Prepare, check and protect materials and work area ready for welding.
- Complete and check the finished weld ready for inspection and report into the production control system.
- Ensure that health and safety requirements are fully accounted for in all the above.

Key behaviours:

- A questioning attitude, to understand the processes and associated industrial applications. Maintaining competence with a commitment to Continuing Professional Development.
- Planning and preparation to ensure production and Continuing Professional Development goals are achieved.

- Intervention, to challenge poor practices and channel feedback to the appropriate authorities to implement change.
- Reliability and dependability to consistently deliver expectations in production, quality, work ethics and self-development.
- Accountability, to follow the specified procedures and controls and be personally responsible for their production work and personal development.

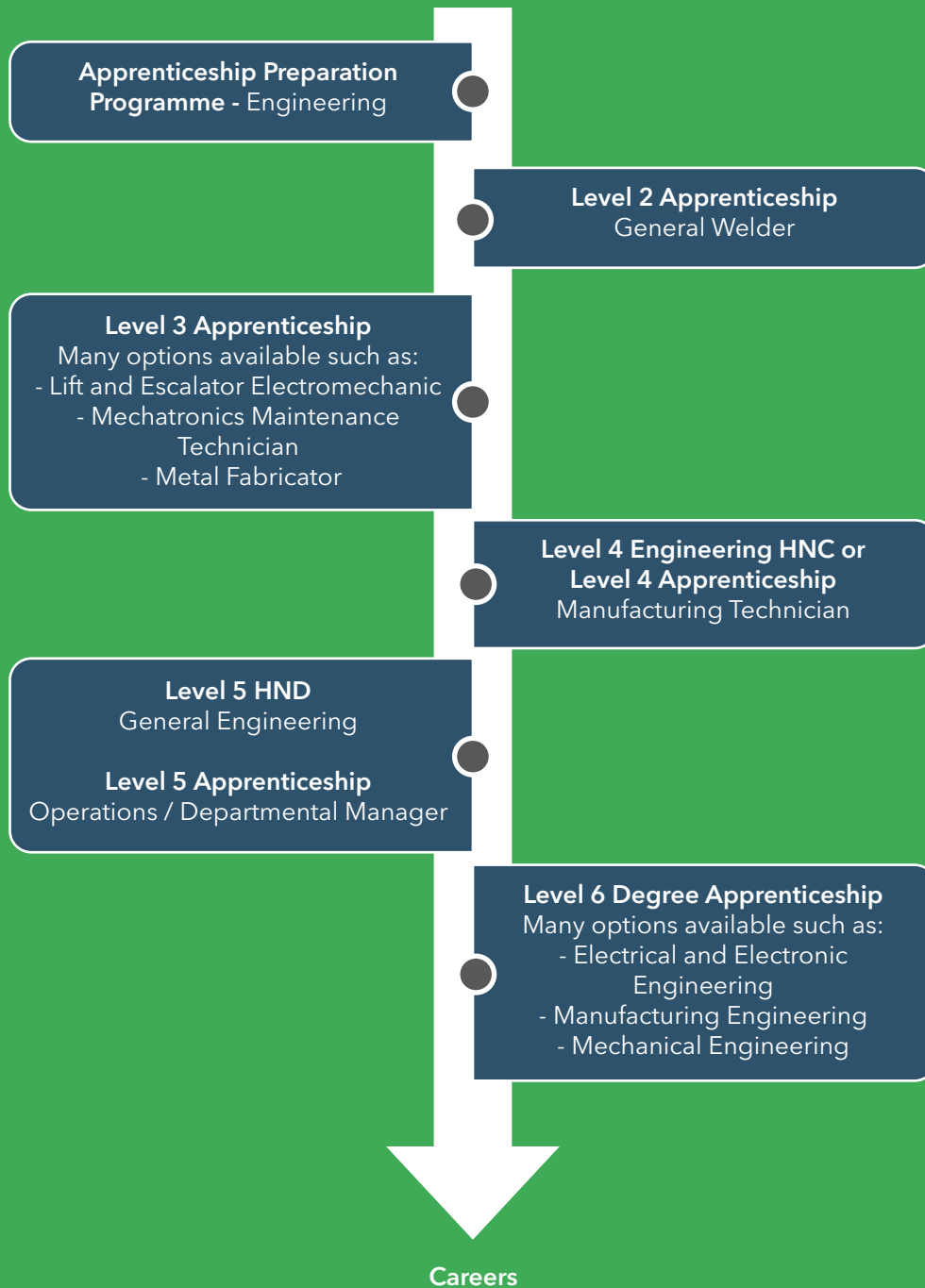
How you'll be assessed?

At the end of your Apprenticeship you'll go through an end-point assessment (EPA) and be graded based on:

1. A theoretical knowledge test using multiple choice question papers containing generic questions relevant to all welders and specific questions relevant to the theoretical part of the skill/knowledge modules selected by the employer.
2. A practical/oral examination comprising two practical tests and an oral examination. The practical tests will be carried out in accordance with a recognised industry specification and will be in the most difficult welding positions for the skill/knowledge modules selected. The Authorised Examiner (Appendix 1), responsible for supervising the tests, will also conduct an oral examination to assess the apprentice's understanding of the tests he/she is undertaking and of the wider responsibilities of a welder.
3. A professional interview which is designed to do two things: firstly, to further explore the apprentice's knowledge relevant to his/her role and, secondly, to assess if the apprentice's occupational behaviours meet the requirements specified in the Apprenticeship Standard.

Your Apprenticeship career path

Below is an example career path showing how you can earn, learn and study up to Degree level with an Apprenticeship. Training 2000 are part of the University of Central Lancashire which makes it easier than ever to progress on to a Degree Apprenticeship.



An Apprenticeship in Engineering can take you in many directions from an Aerospace Engineer to Nuclear engineer. You could even go on to own your own business.

Interested? Apply now

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