University of Lancashire
Training 2000

INFORMATION FOR STUDENTS

Apprenticeships

Metal Fabricator

Level 3 Apprenticeship

Fabricators in the Advanced Manufacturing Engineering and Construction engineering sector are predominantly involved in highly skilled, complex, specialist and detailed work covering a wide range of common and job specific skills sets that can be transferred across the wider engineering industry sectors during the course of their careers.
Fabricators would work on one or more discipline from sheet metal working; plateworking; structural steelwork, pipe and tube fabrication, manual joining, joining machine setting and operating. They need to work safely in line with relevant Health and Safety regulations and are required to interpret a wide range of technical data and information in order to be able to carry out the fabrication activity efficiently and effectively.

Duration:

Up to 4 years

Year 1 - x1 eight week block, which consists of x2 weeks of each learning MIG, TIG, plate work and sheet metal

Year 2 - 1 day per week to complete the Technical Certificate (if required) / assessment in your workplace

Year 3/4 - assessment in your workplace

Where will I study:

Training 2000, Blackburn

Entry requirements:

A minimum of four GCSEs at grade 4 (C) or above including English, Maths, Science and Technology is desirable. Other equivalent qualifications are acceptable

Year 1 blocks could take between 12 and 18 months to complete. Full time or block training to be decided by employer.

What you'll learn

Working safely
Work safely at all times complying with health and safety legislation, regulations, organisational and environmental requirements

Planning
Plan and prepare for the metal fabrication activities before commencing work

Specifications
Check materials conform to the specified grades, dimensions and thicknesses identified on detailed engineering drawings

Moving and handling
Use the correct methods for the moving and handling resources and materials

Safe use of equipment
Set up, check and adjust the equipment for use in the safe and reliable fabrication of metal products or components and maintaining the equipment in a reliable and safe condition throughout

Interpret technical drawings
Interpret technical drawings, patterns, templates and specifications to mark out, produce and assemble complex fabricated products to meet the required specification and quality requirements

Tools, equipment and techniques
Use appropriate tools, equipment and techniques to shape and form (hot or cold) metal materials, demonstrating and applying knowledge of material properties and characteristics throughout

Monitor and improve
Monitor resources and activities throughout the fabrication of products or components, identifying areas for improving the production process where possible

Preparation
Cutting, drilling, shaping and preparing metal materials during fabrication activities using manual and power tools, thermal and laser cutting, as required calculating dimensions and tolerances using knowledge of mathematics and instruments/equipment

Operating tools and equipment
Operate appropriate tools and equipment to join metal parts using a range of mechanical fasteners and fixing techniques required by the specifications appropriate to the fabrication activity being carried out and in accordance with approved joining procedures and quality requirements

Joining equipment
Operate joining equipment to join metal parts using a range of appropriate techniques to the standards required by the specifications for the fabrication activity being carried out

Insect and test
Inspect and test joins for security against required standard

Quality control
Carry out quality checks on component parts and completed assemblies

Problem solving
Deal with problems that occur within the fabrication activity in line with responsibilities of the role

Completing the activity
Restore the work area and equipment to a safe and reliable condition on completion of the activity

Completing documentation
Complete documentation at the appropriate stages of the work activity

Welding
Weld joints in accordance with approved welding procedures and quality requirements

How you'll be assessed?

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

1. Practical observation
2. Professional discussion

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 or Degree.

Level 3 Apprenticeship
Various available

Level 4 Higher National Certificate
Electrical and Electronic Engineering
Mechatronics
Manufacturing Engineering

Level 5 Higher National Diploma
General Engineering

Level 6 Degree Apprenticeship
Many options available such as:
- Electrical and Electronic Engineering
- Manufacturing Engineering
- Mechanical Engineering

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? Apprenticeships start throughout the year. Apply now!

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