

Metal Casting, Foundry and Patternmaking

Sector	Engineering
Who is it for?	New recruits and existing staff
Start date	September
Level	3
Duration	27-33 months
End-point assessment	Ongoing assessment and final grading through end-point assessment
Qualification	Level 3 Metal Casting, Foundry and Patternmaking Technician
Delivery model	Bespoke block

This standard aims to give the Apprentice the knowledge, skills and behaviours to undertake a highly skilled, complex and important role in the cast metals industry.

The casting industry underpins and is a vital supplier to other industries (automotive, aerospace, rail, power and renewable energy, medical, pumps and valves, defence, petrochemical and marine).

Typical job roles include:

Foundry material and process control technician

Foundry production or metal casting furnace and ladle technician

What your Apprentice will learn



Apprentices develop knowledge, skills and behaviours to be able to work effectively in their job role.

These form the Apprenticeship standard that has been developed and agreed with employers.

The knowledge, skills and behaviours that your Apprentice will learn include:

Knowledge

Production processes including moulding, die casting and investment casting

How to optimise performance and correct issues

How to interpret relevant engineering and manufacturing data and documentation

General metal casting, foundry and patternmaking principles

Engineering, mathematical and scientific principles

The structure, properties and characteristics of common materials

Skills

Optimising the production process to improve performance

Ensuring that the importance of commercial principles is recognised in production

Dealing promptly and effectively with casting, foundry or patternmaking problems

Completing appropriate documentation

Planning and obtaining all the resources and documentation required to undertake the manufacturing process

Undertaking the work using the correct processes, procedures and equipment

Behaviours

Personal responsibility and resilience

Team work

Communication and interpersonal skills




Quality and problem solving

Personal development



Get in touch

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