

Engineering Technician: Product Design and Development Technician Apprenticeship Standard



Course Level: Level 3

Campus: Both

Subject Type: Construction & Engineering

Course Overview:

This apprenticeship focuses on developing skills in product design and development, including CAD modelling, prototyping and testing, preparing apprentices for roles in product design or development teams.

What's Covered:

What will be covered whilst training:

After a period of foundation skills and technical knowledge development all apprentices will be required to achieve the following qualifications:

- Level 2 Diploma in Advanced Manufacturing Engineering (Foundation Competence)
- Level 2 Award for Foundation Phase Gateway Assessment

After a further period of skills and technical knowledge development all apprentices will be required to achieve the following qualifications:

- Level 3 Diploma in Advanced Manufacturing Engineering (Development Competence) – Product Design and Development
- Level 3 Diploma or Extended Diploma in Advanced Manufacturing Engineering (Development Knowledge)

You will also cover and provide evidence for a range of “behaviours”, which includes Personal Responsibility, Working in Teams, Effective Communication, Problem Solving and Continuous Personal Development.

Entry Requirements:

Individual employers will set the recruitment and selection criteria for their Apprenticeships. In order to optimise success, candidates will typically have GCSEs at Grade C/4 or equivalent, including Mathematics, English and a Science.

Assessment Information:

Your progress is monitored and assessments are arranged throughout the course and are usually done on-the-job and through day release to college.

Assessment has three aspects which include observation of your actual performance and your knowledge and understanding you display in response to written and/ or spoken questions, and a portfolio of support material which you will build up containing assignments, case studies and testimony evidence through the e-portfolio.

To achieve your qualification you will also need to achieve a pass in the end point assessment.

Fees and Financial Support:

While you are on an apprenticeship your employer pays you a salary and supports you whilst you undertake your training.

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**DfE Expert Training
Providers**

Results 13%

**above national
average**

Progression:**Typical job roles include:**

Product Design & Development Technicians primarily work on all stages of product creation and modification. They support activities ranging from early concept feasibility, design and development stages right through to final preparation for launch and customers. This includes working in concept studios, rapid prototyping, assembly, and testing, validating and analysing performance. Typically they work closely with engineers in bringing new concepts to life or supporting redesigns of existing products.

If you successfully achieve all parts of the apprenticeship, your assessor will discuss your next steps to take. Dependent on your roles and responsibilities, this may be the next level of the subject you have been studying already or a different pathway.

How do I find out more?

Telephone: 01782 254287 (Newcastle office) or 01785 275660 (Stafford office)

Email: apprenticeships@nscg.ac.uk