

Advanced Manufacturing Engineering

Higher Apprenticeship Level 4

This Higher Apprenticeship offers broad-based training suitable for experienced candidates who want to progress their careers in a number of potential roles.

It has been designed to enable you to:

- Develop and grow your existing workforce
- Secure expert support for your recruitment needs and processes
- Address the skills shortages of your business
- Add value and increase productivity within your business
- Benefit from bespoke training for the development of your business

Key Areas of Study

There are two vocational qualifications to this apprenticeship: firstly, a BTEC Higher National Certificate (HNC) in Manufacturing Engineering or Electrical/Electronic Engineering; secondly, a Level 4 NVQ Diploma in Engineering Manufacture.

Quick Information:

Modern Apprenticeships designed with employers

Sector:

Engineering, Manufacturing and associated industrial sectors

Who is it for?

New recruits and existing staff

Start date:

Flexible to suit employers

Level:

Level 4

Duration:

From 2 to 3 years

How does it work?

Delivered in your workplace with one day a week at College and regular tutor visits every 6 to 8 weeks

Content:

Delivered units are provided below

Assessment:

On programme assessment

Qualification:

BTEC HNC in Manufacturing Engineering or Electrical/Electronic Engineering; NVQ Level 4 Diploma in Engineering Manufacture



BTEC Higher Nationals

The new BTEC Higher National Engineering qualification consists of six pathways. The Higher National Certificate (HNC) requires two years to complete; the Higher National Diploma (HND) would require a further year of study. The core units of study are designed to meet the skills needs of the sector and the specialist units allow coverage of the full range of engineering employment disciplines. We focus on the Mechanical, Electrical/Electronics and Maintenance pathways. We aim to make maximum use of the choice available within the specialist units to meet local skills and training requirements.

The BTEC Higher Nationals represent the latest in professional standards and provide opportunities for students to develop higher-level knowledge, skills and behaviours to succeed in the workplace; for example by undertaking a group project, carrying out specific research or responding to a client brief.

The new content is closely aligned with the needs of employers, professional bodies and higher education for a skilled future workforce, with learning outcomes mapped against professional body standards where appropriate.

Examples of units covered include:

Year 1

- Engineering Mathematics
- Engineering Science
- Engineering Design
- Production Engineering for Manufacture
- Manage Professional Engineering Project

Year 2

- Quality Process Improvements
- CAD for Maintenance Engineers or Instrumentation and Control
- Professional Engineering Management
- Lean Manufacturing
- Research Project

NVQ

The competence based component of the qualification is achieved by leading on projects or improving systems and processes within the business which add value to the organisation, through improving productivity or creating efficiency savings. The trainee will be required to lead and manage on the projects, carry out research, produce planning documentation for costings, time management, quality, health and safety, together with an analysis/evaluation of outcomes.

Training, Tutoring and Assessment

The programme takes a maximum of three years to complete. The BTEC Higher National qualification will be completed on a day release basis at College in term time only. This will be over two years if completing a HNC or three years if completing a HND.

The NVQ competence based component of the qualification will be completed over a maximum of three years and is assessed in the workplace.

Your trainee will receive an induction process onto the programme, which is designed to inform them of the expectations of the qualification and their responsibilities to ensure a successful completion.

You will be need to support your trainee in completing work-based projects and provide a mentor to offer advice and guidance throughout the apprenticeship.

We will support you and your trainee through regular one-to-one visits by a designated Training and Assessment Facilitator every six to eight weeks. These visits will cover one-to-one support and individual learning, as well as observations to assess your trainee's competencies in the workplace and a review of their portfolio of evidence.

Through the BTEC HNC qualification, we will provide theory and skills to help your trainee complete the NVQ competence based qualification effectively:

- We select relevant HNC units that support your trainee in completing their competency assessment.
- Our curriculum delivery staff have recognised industry experience and qualifications that exceed the minimum standards of the qualification.
- Our industry-experienced and competent Training and Assessment Facilitators are qualified to HE level to support and guide your trainee through their learning journey.
- Our curriculum delivery staff and Training and Assessment Facilitators liaise to ensure all elements of the programme support your trainee and maintain standards to meet required outcomes of the qualification specification.
- We plan meetings with you to discuss future progress of the qualification and any agreed changes to improve the learner experience.
- We regularly consult all relevant parties to ensure the continued improvement and development of the support and delivery of the qualification.

Apprentice Entry Requirements

Apprentices will be required to have 5 GCSEs with minimum Grades of C or equivalent, including English and Maths, prior to being accepted onto the apprenticeship. We will provide any English and Maths tuition required. Experience in the industry will be essential.

Future/Other Opportunities

On completion of the Higher Apprenticeship, the student can progress on to a HND at College or further HE study at University.

Career opportunities could include working in a wide variety of engineering roles.

More information

To find out more about the opportunities and financing of apprenticeships and to discuss your particular requirements, please email **employer@sheffcol.ac.uk** or call **0114 260 2600** to speak to one of our friendly employer advisors.

Why choose The Sheffield College?

As one of the region's largest providers of apprenticeships, The Sheffield College is more than just your local provider; we deliver the dedicated support you need to source, train and get the best out of your apprentice.

We appreciate how difficult and time consuming it can be to recruit staff. That's why, when you recruit an apprentice with us, our dedicated apprenticeship recruitment service, Job Connect, will advertise the vacancy, engage your candidates and even pre-screen them to make the process as easy as possible for you.

We help you get the best deal by finding the right funding and we handle the paperwork to make the process of arranging an apprenticeship training programme as smooth as possible. Our employer partnership team, apprenticeship tutors and assessment staff are experts, and we invest time and money in training and upskilling them regularly so their knowledge is up-to-date and industry standard.

We have undertaken significant capital investment in supporting our Engineering provision. Staff are fully qualified and have extensive experience within the industry. We stay up to date with the latest industry techniques and any new materials that come on to the market.

At The Sheffield College we go above and beyond; we know that every business is different and we help to develop apprentices who will meet the needs of your business.

Get In Touch

Email:

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Call:

0114 260 2600

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