



For **new** or **existing** staff

Engineering Apprenticeship Level 2

Delivered by Gloucestershire College

This apprenticeship framework covers the basic skills and knowledge required to enter the engineering or manufacturing sectors. Apprentices will understand the need to recognise and use safe working practices, consideration of the environment and working effectively as part of a team. This apprenticeship also includes learning about the basic materials and tools that engineers use in their everyday work as well as the different career routes and the training required for these routes.

Delivery model and duration:

Workplace delivery with 1 day per week in college

Duration: 24 months

Ideal for:

- Mechanical/Production Engineer
- Manual Machinery/Craft
- CNC Operator
- Manufacturing Engineer

The apprenticeship will cover the following core areas:

- Mathematics
- Health and safety
- Principles of engineering

Benefits to business

- Apprenticeships provide skilled workers for the future
- Apprenticeships increase staff loyalty and retention
- Apprenticeships increase a company's productivity
- Apprentices can revitalise a company

Qualification:

Level 2 City & Guilds Diploma in Engineering
Level 2 NVQ Diploma in Performing Engineering Operations

» **Completers may want to progress to Engineering Apprenticeship Level 3**

Entry Criteria:

- Three GCSEs grades A-D or 9-4 in English, maths and a science/technical based subject

Benefits for learners

- Apprentices are paid at least the apprenticeship minimum wage with many employers paying more.
- Gain a nationally recognised qualification that can lead to higher education as well as full time employment.
- Gain genuine, consistent work experience.
- Getting into employment earlier means there's potential for you to progress in your career quickly.



Why work with Gloucestershire College

We will work in partnership with you to help you achieve your business objectives by providing exceptional apprenticeship programmes, a comprehensive range of staff training and skills development courses and access to an unrivalled resource of motivated and work ready employees.

☎ 01452 563400

✉ business.hub@gloscol.ac.uk

🌐 www.gloscol.ac.uk/apprenticeships



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Components

- Level 1 English Functional Skills
- Level 1 Maths Functional Skills
- Employment Rights and Responsibilities
- Personal Learning and Thinking Skills

Unit	Overview
Working in Engineering	This unit will encourage candidates to find out about working in engineering. It will cover the underpinning basic skills and knowledge needed to function in engineering or manufacturing sectors. It will cover the need to recognise and use safe working practices, consideration of the environment and working effectively as part of a team.
Principles of Engineering Technology	This unit is concerned with the basic principles of mathematics and science, along with the materials technology that underpin engineering applications. It covers common applied engineering calculations and materials selection in terms of types, common forms of supply, properties and methods of changing their properties
Principles of Manufacturing Technology	This unit is concerned with the method of manufacture. It includes the range of functions found in manufacturing organisations and will provide the candidate with the knowledge to plan the manufacturing production of routine engineering components by the most economic manufacturing methods
Machining Components Using Turning Techniques	This unit covers a broad range of turning activities that are required in the engineering and manufacturing sectors. It covers skills and knowledge needed to produce turned components in different materials, using appropriate tools and equipment and inspection techniques to achieve the required tolerances and conforming to specifications, whilst complying with health and safety legislation and regulations.
Using Bench Fitting Techniques	This unit covers a broad range of fitting activities that are required in the engineering and manufacturing sectors. It covers skills and knowledge needed to produce components for assembly using appropriate tools, different materials and inspection techniques to achieve the required tolerances and conforming to specifications, whilst complying with health and safety legislation and regulations.

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