

## Engineering Technician Machinist Apprenticeship Standard

Machinists in the Advanced Manufacturing Engineering sector carry out highly skilled and complex precision work, including the setting-up, operating, and adjusting of equipment settings. This apprenticeship provides valuable experience in machining components from specialist materials; using conventional and CNC machine tools such as centre lathes, vertical and horizontal milling machines, horizontal and cylindrical grinding machines, electro-discharge machines, and single and multi-axis CNC machine tools.

Delivery model and duration: Apprentices will attend college for two days per week over two years. Training, assessments and observations will also be completed in the workplace. This can be supported by some remote delivery if required.

Duration: 42 months

Ideal for: • Machinist • CNC Machinist • Programmer/Machinist • CNC Setter/Operator

The apprenticeship will cover the following core areas: • Understanding mathematical techniques, formula and calculation involved in the machining processes such as speeds and feeds, calculating angles/tapers, material removal • Understanding the workholding devices, cutting tools, and setting up procedures, in adequate depth to provide a sound basis for carrying out the activities, correcting faults and ensuring the work output is to the required specification • Producing complex and specialist components as a one-off test and trial work piece and/or producing components in small or large batches • Contributing to the business by identifying possible opportunities for improving working practices, processes and/or procedures

Benefits for learners • Gain high level technical knowledge and practical experience by combining on the job training with academic study • Gain a valuable, national-recognised qualification • Fill skills gaps in businesses

Components • EAL Level 2 Diploma in Advanced Manufacturing Engineering • EAL Level 2 Diploma in Machining • EAL Level 3 Diploma in Advanced Manufacturing Engineering - Machining • EAL Level 3 Diploma in Machining • Functional Skills English at Level 2

## Entry Requirements

Individual employers will set the recruitment and selection criteria. Candidates will typically have 4 GCSEs at Grade C (4) or the equivalent, including Maths, English and a Science

## What's Next

Apply now at [www.gloscol.ac.uk](http://www.gloscol.ac.uk) or call 0345 155 2020

Completers may want to progress to Engineering Apprenticeship Level 4 or HNC

## Your Options

	Start Date	End Date	Course Level
<b>Engineering Technician Machinist Apprenticeship Standard (Part Time)</b>			
Gloucester	TBC	TBC	3
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