

# Machining Technician Apprenticeship

## Course Overview

The broad purpose of the occupation is to produce complex and precision work by machining components. Components are machined from metal or specialist materials using conventional or CNC machine tools. Machining Technicians interpret information and plan their activities. They also set up, operate and adjust machine tool settings. When using CNC equipment, they can produce, prove and validate programs. They inspect components and machinery, report issues and support continuous improvement activities. They typically work in a manufacturing environment. Depending on the organisation, they may be required to work at height or work shifts.

## What you will learn

During the first year, you will cover the acts and regulations important to this industry including Health Safety at Work Act, Personal Protective Equipment (PPE), manual handling, Control of Substances Hazardous to Health (COSHH), Provision and Use of Work Equipment Regulations (PUWER), Noise at Work Regulations, Electricity at Work Regulations. You will complete common core units: Engineering maths and Science Engineering Techniques Engineering Environmental Awareness Preparing using lathes for turning operations Preparing and using milling machines Properties and applications of engineering materials Engineering Mathematics Computer numerical control (CNC) Programming / Machining

Following on in year 2 you will learn the principles of design and operation, for example; design for cost, minimising waste, productivity (speed), health and safety, and reverse engineering. You will also learn Types of faults that occur and problem-solving techniques. You will learn Health and Safety in the Engineering Workplace Engineering Communications Computer Aided Design techniques (CAD) Engineering Inspection and quality control Workplace Improvement

## Entry Requirements

Ideally, you should have achieved grade 5 or above in GCSE maths and English. However, if you have achieved a grade 4 in either then during your program there will be an opportunity to enrol on a level 2 functional skills course which is the requirement of the overall qualification.

## How you will be assessed

An EPA is an assessment at the end of the apprenticeship. It assesses your competence against the knowledge, skills and behaviors (KSBs) on the occupational standard. You will have been trained on them during your training, both on and off the job. The EPA is your chance to show an independent assessor you can do the occupation you have been trained for. Your employer will only recommend you start the EPA when you have finished your training and both your employer and you think you are ready. Your employer will choose an end-point assessment organisation (EPAO) to deliver the EPA. Your employer and training provider should provide you with support on what to expect and how to prepare for your EPA.

## Course Fees

N/A

## Course Progression

Once you have completed this, you can progress into a Level 4 apprenticeship programme in engineering or HTQ. You can also progress into team leader/supervisor level, operations/departmental manager level 5; chartered manager degree level 6, and then senior leader master's degree level 7. We have independent careers advisors at the college who will be able to give you information, advice and guidance on your next steps after completing your apprenticeship.

## What Happens Next

You will receive further instructions regarding the enrolment process shortly and the required documentation. The apprenticeship programme requires a significant commitment of time, effort, and dedication. You will be expected to attend all training sessions, complete assignments, and actively participate in the learning process. Regular attendance and punctuality are essential.

## Course Details

<b>Course Code</b>	P00585
<b>Start Date</b>	Various
<b>Study Hours</b>	Full Time
<b>Duration</b>	42 months
<b>Campus</b>	Freemen's Park Campus
<b>Level</b>	3

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