



# Why Work as an... Machining Technician

A solution for your training needs and career progression

## ROLE 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.

## KEY POINTS

- **Level:** 3
- **Duration:** 42 months + End Point Assessment
- **Entry requirements:** You may be required to undertake training in maths and English. See [HERE](#) for more information
- **Career progression:** Options include Lead Engineering Maintenance Technician and Manufacturing Manager

## KNOWLEDGE REQUIREMENTS



- Engineering representations, drawings, graphical information and specifications
- Planning techniques, time management, workflow, work scheduling, work plans, documents and work categorisation systems
- Tooling and work-holding devices: purpose and operation of devices for carrying out complex machining tasks
- Machining operations and techniques to produce complex components
- Use and application of measurement, calibration and testing equipment
- Inspection processes and procedures; documentation and escalation
- Continuous improvement principles and practices: Lean; Six Sigma; Kaizen

## SKILL REQUIREMENTS



- Prepare and set up conventional or CNC
- Apply risk assessment and hazard identification processes and procedures in the work area
- Apply engineering, mathematical and scientific principles
- Select and check condition of tools and equipment. Identify issues, resolve and take action as needed
- Maintain the work area and return any resources and consumables
- Follow machine shut down, safe isolation, handover, start up or warm up procedures. Escalate issues

## BEHAVIOUR REQUIREMENTS



- Prioritise health and safety
- Act ethically
- Take responsibility for work
- Team-focus to meet work goals, for example, work effectively with others, resolves issues in discussion with others
- Committed to continued professional development (CPD) to maintain and enhance competence in their own area of practice
- Support an equality, diverse and inclusive culture

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