

# Why complete a... Engineering and Manufacturing Foundation Apprenticeship

A solution for your training needs and career progression

## ROLE OVERVIEW

General engineering and manufacturing operatives are found in environments supporting, for example, production, maintenance, assembly of components and systems, machining operations, fabrication and welding and additive manufacturing functions. They may work across many sectors including automotive, aerospace, energy, advanced and general manufacturing. The apprentice will carry out general engineering and manufacturing tasks consistently using safe working practices, planning and organising resources, and completing tasks within timeframes.

### KEY POINTS

- **Level:** 2 Foundation
- **Duration:** 8 months + Apprenticeship Assessment
- **Entry requirements:** The apprentice must normally be aged 16 to 21 at the start of their apprenticeship.
- **Career progression:** Upon successful completion you may progress onto role specific apprenticeships

## KNOWLEDGE REQUIREMENTS



- The engineering and manufacturing function and role and responsibilities of the operative
- Workplace safety and operating procedures. What they are and why they are important
- Work area preparation and maintenance techniques
- Use and characteristics of job specifications, engineering and manufacturing drawings, and technical information
- Use, basic maintenance and storage techniques of tools, equipment and machinery associated with engineering and manufacturing tasks
- Types and use of common components, connections and fastenings associated with engineering and manufacturing tasks
- Techniques to carry out basic hand-based engineering and manufacturing tasks, including measuring and marking out, bench fitting and hand tool tasks

## SKILL REQUIREMENTS



- Interpret engineering and manufacturing information for example, job specifications, engineering and manufacturing drawings, and technical information
- Use and store tools, equipment and machinery associated with engineering and manufacturing tasks, including carrying out basic maintenance
- Assist co-workers in engineering and manufacturing activity when required
- Apply techniques to carry out basic hand-based engineering and manufacturing tasks
- Apply techniques to carry out basic machine-based engineering and manufacturing tasks

## BEHAVIOUR REQUIREMENTS



- Act in a professional manner including good time keeping and conduct
- Apply new learning and feedback to everyday practice
- Complete own work tasks and ask for help when needed
- Work with colleagues to contribute to team outcomes

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