



Why Work as an... Engineering Fitter

A solution for your training needs and career progression

ROLE OVERVIEW

The broad purpose of the occupation is to produce complex high value, low volume components or assemblies in full or part, using machines, equipment or systems, to the required specification. For example, turbines, cranes, gearboxes, production lines, rigs and platforms. Fitters may typically have a mechanical, electrical, electronic, control systems, pipe fitting or instrumentation bias.

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:** This apprenticeship can lead to the Engineering Manufacturing Technician Level 4

KNOWLEDGE REQUIREMENTS



- Principles of design and operation, for example; design for cost, minimising waste, productivity (speed), health and safety, reverse engineering
- Component or assembly specifications, for example; electrical loading, load charts, torque settings, tolerances. What they are and how to use them
- Engineering mathematical and scientific principles; methods, techniques, graphical expressions, symbols, formulae and calculations
- Engineering data, for example; electrical readings, vibration, speed and calibration. What they are and how to interpret and use
- Who they need to communicate with and when, and communication techniques - verbal and written
- Planning techniques – resources, tools, equipment, people; time management

SKILL REQUIREMENTS



- Preparing work area for component or assembly task; sourcing required resources, tools and equipment
- Problem solving; analysing the issue and fixing the issue where appropriate
- Communicating with colleagues or customers (internal or external)
- Restoring the work area on completion of the activity; returning any resources and consumables to the appropriate location and house-keeping
- Completing component or assembly documentation for example job instructions, drawings, quality control documentation
- Disposing of waste in accordance with waste streams; recycling, re-using where appropriate

BEHAVIOUR REQUIREMENTS



- Takes personal responsibility and be resilient
- Works effectively in teams
- Effective communicator and personable
- Focuses on quality and problem solving
- Committed to continuous personal development

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