

Level 4 Engineering Manufacturing Technician Standard (ST0841)

Product Information Sheet

Typical Duration to Gateway: 42 Months

Funding: £21,000

<https://www.instituteforapprenticeships.org/apprenticeship-standards/engineering-manufacturing-technician>

- Level 4 HNC in Engineering or Manufacturing disciplines that fully align with the KSB's of the Standard.

Overview of the Role

Providing specialist technical support for Engineers.

Occupation Summary

This occupation is found in large and small engineering and manufacturing organisations providing products and services throughout a wide range of sectors, such as Automotive, Aerospace and Airworthiness, Chemical Processing, Land Systems, Marine, Maritime Defence, Materials Manufacturers and their respective supply chains. Research indicates that the sector needs to recruit approximately 124,000 Engineers and Technicians every year.

The broad purpose of the occupation is to provide specialist technical support for Engineers, so that organisations can develop, produce or test new and existing products, processes, or procedures to meet a customer specification in terms of quality, cost, and delivery, as efficiently and effectively as possible. Engineering Manufacturing Technicians gather information and data from a range of sources and analyse the information and data.

They will make decisions, solve problems, and produce and where applicable, update technical documentation, reports or specifications covering areas such as quality, reliability, production schedules and targets, costing or other technical documentation that informs others, either internally or externally what needs to be done such as how a product must be designed, manufactured, tested, modified, maintained, stored, transported, commissioned, or decommissioned.

In their daily work, an employee in this occupation interacts with their line manager to confirm departmental programmes of work and to agree

individual responsibilities. This in turn will align to an overarching organisational resource and delivery plan. Engineering Manufacturing Technicians can be office based, manufacturing or plant based or more commonly combination of both, working with engineering or manufacturing teams at an operational level such as with production team leaders or management level working with specialist quality or design engineers. As well as liaising with internal colleagues, they may also be responsible for working directly with customers and suppliers or with representatives from appropriate regulatory bodies. Typically, this would involve interaction with auditors to demonstrate compliance to specific Organisational or regulatory requirements (such as Civil Aviation Authority). Their time will be spent between working in an office environment and working in the manufacturing environment or visiting customers or suppliers as and when required.

An employee in this occupation will be responsible for the quality, safety and delivery of the manufactured product or service, ensuring it is delivered to the customer on time at the agreed cost. They will typically report to an Engineering or Manufacturing Manager as part of a cross functional team, the size of this team and responsibilities will vary depending on the size of the employer. Although working within defined quality processes and procedures, they are responsible for the delivery, quality, and accuracy of the work they complete. They have the autonomy to use judgement when undertaking the occupational duties and applying their technical knowledge, skills, and behaviours in a wide range of contexts and environments. They use a range of tools and techniques to support decision making and solve problems that are often complex and non-routine. They also have a responsibility to identify and contribute to making improvements such as business processes, procedures, ways, and methods of working.

NOTE: Please refer to the link above for Knowledge, Skills, Behaviours and duty requirements.

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Typical Job Roles Include:

- Costing Engineer
- Installation Engineer
- Manufacturing Procurement Engineer
- Manufacturing Production Engineer
- Manufacturing Quality Engineer
- Process Engineer
- Production Support Engineer
- Quality Engineer
- Test and Commissioning Engineer

Professional Recognition

This standard aligns with the following professional recognition:

- Engineering Council for Engineering Technician (EngTech) for Engineering Technician
- Institution of Mechanical Engineers (IMechE) for Engineering Technician
- Royal Aeronautical Society for Engineering Technician

End Point Assessment (EPA)

Consists of 2 assessment methods:

Assessment Method 1

Observation with questioning.

Assessment Method 2

Professional discussion supported by a portfolio of evidence.

On Programme Requirements

12 weekly progress and behavioural reviews.