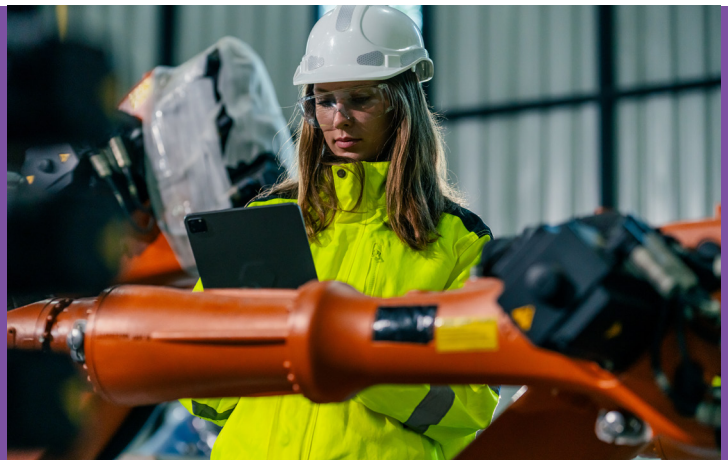
ST0841 | Engineering Manufacturing Technician

SIAS

General Overview

- ✓ Typical on-programme learning: 42
- ✓ EPA duration: 3 months
- ✓ Maximum funding: £21,000
- ✓ Level 4



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.

Entry Requirements

There are no statutory, regulatory or other typical entry requirements

On-Programme Competence Evaluation

The apprentice will complete on and off-the-job training, developing their knowledge, skills & behaviours as stipulated within the apprenticeship standard.

Gateway Requirements

The employer, supported by the training provider must confirm that the apprentice is ready for EPA, before the EPA process can begin.

The employer, supported by the training provider must sign a declaration to agree the apprentice has met the required criteria as set out in the Engineering Manufacturing Technician standard.

As part of the SIAS EPA service, we will check that all gateway evidence has been met before we begin the process of EPA.

End Point Assessment (EPA)

The assessment plan defines the following methods of assessment for the Engineering Manufacturing Technician standard.

1 Observation and Questioning

- The observation will relate to the job role the apprentice is working towards.
- Questioning will consist of a minimum of 6 open questions.
- Overall duration: 3 hours

2 Professional Discussion supported by a Portfolio of Evidence

- A professional discussion is a two-way discussion which involves both the independent assessor and the apprentice actively listening and participating in a formal conversation. The portfolio must have sufficient content to demonstrate the apprentices' application of the specific knowledge, skills, and behaviours of the job role.
- The end-point assessor must ask a minimum of 10 open competence-based questions.
- Duration: 60 minutes.

Assessment Marking & Grading

Results for each individual assessment method will be available within 15 working days from the assessment date.

The SIAS end-point assessor, will combine the results of each individual assessment method and provide an overall assessment grade of Fail, Pass or Distinction.

Apprenticeship Certification

Your apprentice will receive a Certificate of Apprenticeship on successful completion of all individual assessment methods.

Guidance & Support

SIAS provide a range of resources which offer End-Point Assessment guidance and support for the apprentice, the employer, and the college/training provider.

We aim help employers and colleges/training providers to support the on-going competence evaluation of the apprentices' knowledge, skills, and behaviour to ensure that your apprentice is confident for their End-Point Assessment. All of our resources are comprehensively mapped to this apprenticeship standard.