ST1305 | Machining Technician

General Overview

- ✓ **Typical on-programme learning: 42 months**
- ✓ **EPA duration: 3 months**
- ✓ **Maximum funding: £27,000**
- ✓ **Level 3**
- ✓ **EPA Cost: £2400**

The Machining Technician standard covers occupations in the Advanced Manufacturing and Engineering (AME) sector, which includes aerospace, automotive, maritime defence, nuclear, and construction sectors.

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, adjust, or edit machine tool settings. When using CNC equipment, they can produce, prove, or edit programmes. They inspect components and machinery, report issues and support continuous improvement activities. They typically work in a manufacturing environment. Depending on the organisation, they may be required to work at height or work shifts.

In their daily work, an employee in this occupation interacts with other Machining Technicians. They also interact with various stakeholders. They typically report to an engineering or manufacturing team leader. Typically, this would be as part of a defined or cross functional team. They may also interact with customers, suppliers, colleagues, quality auditors and regulators.

An employee in this occupation will be responsible for the quality and accuracy of their work. They also must work efficiently and be productive in the work they undertake. They must work both individually and as part of a larger team. They must work within the relevant health, safety, and environmental regulations. This includes the use of appropriate protective clothing and equipment. They are responsible for the correct use and housekeeping of machinery, tools, and equipment. All work must be completed in a safe and efficient manner as directed by supervisory staff.

Entry Requirements

Individual employers will set the recruitment and selection criteria for their Apprenticeships. In order to optimise success, candidates will typically have 4 GCSEs at Grade 4 or Grade C or equivalent, including mathematics, English and a Science.

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 Machining 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 Machining Technician standard.

1 Practical Demonstration with Questions

- In a practical demonstration with questions, an end-point assessor observes the apprentice completing a task or series of tasks set by SIAS. This is followed by the end-point assessor asking at least 5 questions to test the apprentice's breadth and depth of underpinning knowledge against the grading descriptors.
- Duration: 4.5 hours.

2 Interview underpinned by a Portfolio of Evidence

- In the interview, an end-point assessor asks the apprentice questions. It gives the apprentice the opportunity to demonstrate the KSBs mapped to this assessment method.
- The end-point assessor will ask the apprentice at least 10 questions.
- Duration: 60 minutes.

3 Knowledge Test

- 30 multiple-choice questions taken under exam conditions.
- 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, Merit, 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 EPA 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 EPA. All of our resources are comprehensively mapped to this apprenticeship standard.

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