

General Overview

- Typical on-programme learning: 36 months
- Typical EPA duration: 3 months
- Maximum funding: £24,000
- Level 3



The aim of this End-Point Assessment (EPA) is to ensure that the apprentice is occupationally competent against the knowledge, skills and behaviours outlined in the assessment plan for this standard.

Metrology is the science of measurement and its application; it includes all theoretical and practical aspects of measurement.

This occupation is found in different industries such as advanced manufacturing, aerospace, automotive, construction, energy, environment, pharmaceuticals, healthcare and within all sizes of organisation. Measurement activities can range from measuring galaxies to graphene, molecules, chemical pollutants, hip joints, aircraft and industrial emissions.

The broad purpose of the occupation is to identify measurement requirements, and then to plan and perform measurement tasks using tools, equipment, instrumentation, materials and software programs. Metrology Technicians access and interpret information and documents to support the measurement process and apply measurement principles whilst carrying out measurement activities. They perform tests and checks on measurements tools, equipment, instrumentation, materials, processes or software programmes to determine their suitability for use. They analyse, interpret and validate measurement results and data. They will also produce and store measurement records and documentation following specified procedures and methodologies.

In their daily work, an employee in this occupation may interact with and report to a senior metrology technician, a metrologist or a quality manager. They may also liaise with internal and external stakeholders, for example customers, team colleagues, colleagues from different functions and departments within the organisation and suppliers.

An employee in this occupation will be responsible for adhering to relevant statutory regulations, national and international standards and organisational procedures and requirements, including policies and procedures relating to the preparation, storage, handling and disposal of resources.

Employees also need to adhere to legislation, regulations, standards and organisational requirements relating to health and safety. They will carry out work with minimal supervision, take responsibility for the quality and accuracy of the work they undertake, and will have a high level of attention to detail. They will manage their own time to meet deadlines and customer requirements.

Entry Requirements

Individual employers will set the selection criteria for their apprentices. Typically, employers might expect individuals to have achieved grade 4 (C) or above at GCSE level in English and maths and a relevant science subject, or equivalent prior to the commencement of the apprenticeship. Other relevant or prior experience may also be considered as an alternative.

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 Metrology 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 Metrology Technician

1

Workplace
Observation
with Questions

- In the workplace observation and questions, an end-point assessor observes the apprentice in their workplace and asks questions. It gives the apprentice the opportunity to demonstrate the KSBs mapped to this assessment method.
- The apprentice completes their day-to-day duties under normal working conditions. Simulation is not allowed.
- The End-Point Assessor will ask a minimum of 4 questions during natural stops between tasks and after completion of work.
- Duration: 2 hours, including questioning.

2

Professional
Discussion
Underpinned by a
Portfolio of Evidence

- In the Professional Discussion, an end-point assessor and apprentice have a formal two-way conversation. It gives the apprentice the opportunity to demonstrate the KSBs mapped to this assessment method.
- The apprentice can refer to and illustrate their answers with evidence from their portfolio of evidence.
- 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 at least 6 questions.
- Duration: 60 minutes



Assessment Marking & Grading

SIAS will notify the employer of the outcome of each of the assessments.

Performance in the EPA determines the overall grade of:

- fail
- pass
- merit
- distinction

To achieve an overall pass, the apprentice must achieve at least a pass in all the assessment methods.

To achieve an overall merit, the apprentice must achieve a pass in one assessment method and a distinction in the other assessment method.

To achieve an overall distinction, the apprentice must achieve a distinction in both of the assessment methods.

SIAS will combine the results of each individual assessment method and provide an overall assessment grade of Fail, Pass, Merit or Distinction.



Apprenticeship Certification

The outcomes from the End-Point Assessment will be reviewed and a grade conferred by SIAS in accordance with SIAS QA procedures, which are available from SIAS. SIAS will notify the employer of the outcome of each of the assessments.

SIAS will apply for the apprentice's certificate, which will be sent by ESFA. The certificate confirms that the apprentice has passed the End-Point Assessment, has demonstrated full competency across the standard and is job-ready.



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.