

ST0249 | Science Industry Maintenance Technician

SIAS

General Overview

- ✓ TYPICAL ON-PROGRAMME LEARNING: 42 MONTHS
- ✓ EPA DURATION: 3 MONTHS
- ✓ MAXIMUM FUNDING: £27,000
- ✓ LEVEL 3



A science industry maintenance technician contributes to the fault free and safe operation of science industry plant by the installation, maintenance, testing and repair of mechanical, electrical equipment and instrumentation.

They will be proactive in finding solutions to problems and identifying areas for improving their work environment. As well as core engineering skills, maintenance technicians need to understand and follow working practices that are specific to the safety critical science industry. They may work in varied conditions including using specialist safety equipment, shift work and on sites running 365-day operations. They will be expected to work both individually and as part of a maintenance team. They will be able to work with minimum supervision, taking responsibility for the quality and accuracy of the work they undertake. They may be part of in-house maintenance teams or engineering maintenance contractor teams who work for different companies across the science industry.

Science industry maintenance technicians work in a wide range of companies, including, but not exclusively, chemical, petrochemical, polymer, primary and secondary pharmaceutical, biotechnology, formulated products, engineering and nuclear manufacturing. In either case employers are subject to inspection by the regulator for their industry, for example, Health and Safety Executive or Medicines and Healthcare Products Regulatory Agency. As companies operate under highly regulated conditions a premium is placed on appropriate attitudes and behaviours to ensure apprentices comply with organisational safety and regulatory requirements at all times.

Entry Requirements

Individual employers will set the selection criteria for their apprentices. Most candidates will have achieved grade C or above in English and Maths and a STEM-related subject at Level 2 prior to commencement of apprenticeship.

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 Science Industry Maintenance 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)

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

The assessment plan defines the following methods of assessment for the Science Industry Maintenance Technician standard.

1

Synoptic Assessment Test

- The purpose of the synoptic assessment test is to validate the apprentices' competence by observing them carrying out their job role in a normal working environment under normal conditions.
- Duration: 1-2 hours.

2

Vocational Competence Discussion

- The purpose of this assessment is to determine the extent to which the apprentice understands the requirements of their role and to explore understanding of areas not observed or explained during the synoptic assessment test.
- Review of the behaviours' evaluation log outcome.
- Duration 1-1½ hours.

3

Scenario Case Study

- The purpose of this assessment is to ensure that the apprentice is able to transfer the knowledge and skills learnt during the apprenticeship to a prescribed situation. This assessment will take the form of a situational analysis of a given case study.
- Duration: 2½ hours.



Assessment Marking & Grading

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 EPA guidance and support for the apprentice, the employer, and the college/training provider.

We aim to 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.