ST0999

Lead Engineering Maintenance Technician

SIAS

General Overview

- Typical on-programme learning: 36 months
- Typical EPA duration: 6 months
- Maximum funding: £19,000
- Level: 4

This occupation is found in the engineering and manufacturing sector. Sectors typically include maritime, maritime defence, automotive, energy, engineering construction and general engineering maintenance industries. Lead maintenance engineering technicians typically perform a multi-disciplinary role, managing or leading other technicians. They may specialise in areas such as mechanical, electronic, or electrical engineering. Employers range from small to large businesses who deliver or require maintenance support. They include major asset owners and operators, the supply chain, contractors and sub-contractors. Typical workplaces include private and public sector manufacturing factories. They can also include dockyards and shipyards, vehicle maintenance facilities, onboard operational vehicles and vessels.

The broad purpose of the occupation is to offer engineering support, technical leadership and expertise. Examples can include support for installation, refit, overhaul, alteration, upgrading, design and maintenance. They can also provide support for testing of significant assets, systems or machinery.

Lead maintenance engineering technicians assist in the delivery of complex and critical asset management programmes. These asset management programmes are often to unique specifications involving complex maintenance and planning. They analyse technical information, plan schedules, co-ordinate, lead and deliver work on time. Lead maintenance engineering technicians ensure work is completed to the required quality, following product and personnel safety processes. They provide customer liaison, leadership, support and expertise to maintenance teams on technical issues. They deal with problems that occur using a structured and controlled approach.

Lead maintenance engineering technicians carry out inspections on systems, equipment and components. They may lead on the commissioning back into operation after maintenance and overhaul. Work can happen in a workshop environment or outdoors conducting maintenance and commissioning activities. Depending on the organisation, Lead maintenance engineering technicians might be expected to work flexibly, including shift work. They may also be 'on-call', to meet customer requirements.

Lead maintenance engineering technicians are responsible for complying with regulatory and organisation requirements, civil or military as appropriate. For example, Office of Nuclear Regulation (ONR), Department of Environment, Maritime Pollution regulations (MARPOL). Health and Safety at Work Act, Provision and Use of Work Equipment Regulations (PUWER). United Kingdom Accreditation Service (UKAS) and the National Measurement Accreditation Service (NAMAS).

Entry Requirements

Individual employers will set their own recruitment and selection criteria for their Apprenticeships. In order to optimise success, candidates will typically have already completed a Level 3 vocational qualification in engineering, or hold A levels in maths and science subjects, or relevant T levels.

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 apprentice should have achieved English and mathematics qualifications in line with the apprenticeship funding rules.

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 Lead Engineering Maintenance Technician.

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

The apprentices should have passed a L4 HNC or similar qualification in engineering and manufacturing maintenance disciplines that fully aligns with the KSBs.

End Point Assessment (EPA)

The assessment plan defines the following methods of assessment for the Level 4 Lead Engineering Manufacturing Technician.

1 Project Report and Presentation with Questions

- ✓ The Project Report and Presentation with Questions features two components: the Project Report and the Presentation with Questions.
- ✓ The project involves the apprentice completing a significant and defined piece of work that has a real business application and benefit, which is completed after Gateway.
- ✓ The project should be based on a specific problem, a recurring issue or an idea or opportunity. It must also include a maintenance, fault-finding and repair related activity.
- ✓ The resulting Project Report is submitted 13 weeks into the EPA period.
- ✓ Project Report length: 5,000-words, not including appendices, references and diagrams.
- ✓ For the second component, the apprentice delivers a presentation to the assessor, of typically 20 minutes in length, before questioning of typically 25 minutes.
- ✓ Presentation with Questions Duration: 45 minutes, including questioning.

2 Professional Discussion Underpinned by a Portfolio of Evidence

- ✓ In the Professional Discussion, an end-point assessor asks the apprentice questions, giving the apprentice the opportunity to demonstrate the knowledge, skills and behaviours 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 7 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 distinction in either assessment method and a pass in the other method.

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