

EPA Specification Maintenance and Operations Engineering Technician – Electromechanical Technician



EPA Specification Section 2 – Mapping the Standard

Contacts

This specification has been designed to provide all the advice and guidance you need to prepare yourself and your apprentices for end-point assessment. However, if you have any further questions please contact the EUIAS Help Desk using one of the following:

Help Desk email: enquiries@euias.co.uk

Help Desk telephone: 0121 745 1310 option 2

Purpose

The purpose of this section is to introduce the elements of the standard and the referencing system used by the EUIAS. It provides an 'at-a-glance' view of which parts of the standard are assessed by which assessment method.

The Standard

The standard is divided in Knowledge, Skills and Behaviours. It has

- Core Knowledge
- Core Skills
- Behaviours
- Electromechanical Technician Specialist Skills

Core Knowledge:

- CK1** First principles relating to the operation and maintenance of appropriate plant and equipment
- CK2** Relevant industry health and safety standards, regulations, and environmental and regulatory requirements
- CK3** Maintenance and operational practices, processes and procedures covering a range of plant and equipment
- CK4** The relevant engineering theories and principles relative to their occupation

Core Skills:

- CS1** comply with industry health, safety and environmental working practices and regulations
- CS2** communicate with and provide information to stakeholders in line with personal role and responsibilities
- CS3** prepare work areas to undertake work related activities and reinstate those areas after the completion of the work-related activities
- CS4** assess and test the performance and condition of plant and equipment
- CS5** locate, and rectify faults on plant and equipment
- CS6** read, understand and interpret information and work in compliance with technical specifications and supporting documentation
- CS7** inspect and maintain appropriate plant and equipment to meet operational requirements
- CS8** communicate, handover and confirm that the appropriate engineering process has been completed to specification

Behaviours:

B1 Health & Safety – follows health & safety policies and procedures and be prepared to challenge unsafe behaviour using appropriate techniques to ensure the protection of people and property when working alone and/or with appropriate supervision

B2 Quality focused – ensures that work achieves quality standard both occupationally and personally

B3 Working with others – works well with people from different disciplines, backgrounds and expertise to accomplish an activity safely and on time

B4 Interpersonal skills – gets along well with others and takes into account their needs and concerns

B5 Critical reasoning – uses resources, techniques and obtained facts to develop sound solutions while recognising and defining problems

B6 Sustainability and ethical behaviour – behaves ethically and undertakes work in a way that contributes to sustainable development

B7 Risk awareness – demonstrates high concentration, the desire to reduce risks, ability to be compliant and awareness of change, through regular monitoring and checking of information

Electromechanical Technician Specialist Skills

EM1 Position, assemble, install and dismantle integrated electromechanical power and control systems

EM2 Carry out planned, unplanned and preventative maintenance procedures on integrated plant and equipment

EM3 Replace, repair and/or remove components within integrated plant and equipment and ensure its return to operational condition.

EM4 Diagnose and determine the cause of faults within integrated electromechanical plant and equipment, electromechanical power and control systems

The standard mapped to the assessment methods:

Knowledge assessment:	All core knowledge (CK1, CK2, CK3, CK4)
Technical Interview:	All core knowledge (CK1, CK2, CK3, CK4)
	PLUS Selected core skills (CS5, CS6, CS7 CS8)
	PLUS One behaviour (B5)
	PLUS All Specialist skills (EM1, EM2, EM3 and EM4)
Practical Observation:	All core skills (CS1, CS2, CS3, CS4, CS5, CS6, CS7, CS8)
	PLUS Selected behaviours (B1, B2, B3, B4, B6, B7)
	PLUS One specialist skill selected from EM1, EM2, EM3 and EM4