

# EPA Specification Maintenance and Operations Engineering Technician – Electrical 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](mailto:enquiries@euias.co.uk)

Help Desk telephone: 0121 713 8310

# 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
- Electrical 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

## Electrical Technician Specialist Skills

**E1** Position, assemble, install and dismantle electrical plant and equipment, which will include motors, switchgear, cables & conductors, to agreed specifications

**E2** Carry out planned, unplanned and preventative maintenance procedures on electrical plant and equipment.

**E3** Replace, repair and/or remove components in electrical plant and equipment and ensure its return to operational condition.

**E4** Diagnose and determine the cause of faults in electrical plant and equipment

## 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 (E1, E2, E3 and E4)
Practical Observation:	All core skills (CS1, CS2, CS3, CS4, CS5, CS6, CS7, CS8)
	PLUS Selected behaviours (B1, B2, B3, B4, B6, B7)
	PLUS <b>One</b> specialist skill selected from E1, E2, E3 and E4