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# EPA Specification Maintenance and Operations Engineering Technician – Control and Instrumentation 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 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 into Knowledge, Skills and Behaviours. It has

- Core Knowledge
- Core Skills
- Behaviours
- Control and Instrumentation 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:

## 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

## Control and Instrumentation technician Specialist Skills

**CI1** Position, assemble, install and dismantle plant and equipment which will include instrumentation and control of temperature, pressure and flow systems, to agreed specifications

**CI2** Carry out planned, unplanned and preventative maintenance procedures on plant and equipment

**CI3** Replace, repair and/or remove components in plant and equipment and ensure its return to operational condition

**CI4** Diagnose and determine the cause of faults in plant and equipment

**CI5** Calibrate and configure instrument and control systems

The standard mapped to the assessment methods:

Knowledge test:	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 (CI1, CI2, CI3, CI4 and CI5)
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 CI1, CI2, CI3, CI4 and CI5