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# L3 EPA Engineering Construction Pipefitter



## 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 endpoint 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 into Knowledge, Skills and Behaviours.

#### Knowledge:

**K1** Relevant health, safety and environmental legislation, regulations and company-specific requirements for safe working practices and procedures

**K2** Importance and benefits of recognised Industry safety passport schemes

**K3** How to work safely, personal site safety responsibilities and how to respond to and provide solutions to problems and emergencies

**K4** Engineering practices and principles including reading engineering drawings and marking out techniques

**K5** Mathematical techniques and formula related to the fabrication, development and installation of pipework systems

**K6** How to correctly select and safely use hand tools, mechanical tools and equipment in differing environments for the fabrication, repair, installation and decommissioning of pipework systems

**K7** Common and specialist pipe materials such as ferrous, non-ferrous and non-metallic including fittings associated with the pipework components and systems

**K8** Pipework preparation, fabrication, installation, maintenance, testing and decommissioning techniques commonly used throughout the Engineering Construction industry

**K9** Appropriate codes, practices and industry standards and their application to ensure quality requirements are met.

#### Skills:

**S1** Comply with appropriate health and safety, risk and quality requirements

**S2** Correctly select and safely use tools and equipment for the fabrication, assembly, installation and decommissioning of pipework components and systems

**S3** Plan, organise and undertake the fabrication, assembly, installation, maintenance and decommissioning of pipework components and systems

**S4** Read, interpret and apply engineering drawing information

**S5** Shape pipework components using hand and power tools to cut, drill, shape and finish components to the required tolerance, specification and standard

**S6** Assemble and install pipework using the appropriate methods, techniques and equipment in accordance with the specification including welded, threaded, bolted and clamped jointing solutions

**S7** Ensure the integrity of joints in accordance with specifications, in line with specified quality procedures and to precise tolerances

**S8** Undertake the testing and inspection of the fabricated and/or installed pipework using the appropriate techniques

**S9** Work with others and contribute to effective working relationships within an Engineering Construction environment

**S10** Apply techniques for the temporary or permanent removal of an engineering construction piping related system or component

**S11** Communicate by keeping others informed about work plans or activities which may affect them and seek assistance from others without causing undue disruption to normal work activities.

**Behaviours:**

**B1** Work with others to effectively and efficiently complete the allocated tasks

**B2** Solve problems within their area of responsibility by applying technical skills and knowledge to define, identify, evaluate and select alternative solutions if required

**B3** Take responsibility as an individual and team member for the quality of the work

**B4** Support their own learning and development and that of others through activities such as mentoring and sharing of expertise and knowledge

**B5** Act ethically, displaying maturity, honesty, integrity and responsibility

**B6** Work safely in accordance with health, safety and environmental legislation, regulations and company-specific requirements

**B7** Maintain a safe, clean and tidy work area

**B8** Check for and identify potential hazards in the workplace and take collective responsibility to maintain a safe working environment

**B9** Question unsafe behaviours and incorrect work practises and procedures.

The Knowledge, Skills and Behaviours statements are assessed in the End-point Assessment elements as follows.

Knowledge Test	Knowledge plus one skill and one behaviour (K1, K2, K3, K4, K5, K6, K7, K8, K9, S4, B7)
Practical Assessment	Knowledge (K4, K5, K6, K7, K8, K9)
	Skills (S1, S2, S3, S4, S5, S6, S7, S8, S10)
	Behaviours (B2, B3, B6, B7, B8)
Structured Professional Review	Knowledge (K1, K2, K3)
	Skills (S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11)
	Behaviours (B1, B2, B3, B4, B5, B6, B7, B8 B9)