



Construction Site Engineering Technician Apprenticeship Level 4

Mapping of Knowledge, Skills & Behaviours against
EngTech MICE Attributes



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Introduction

As a Construction Site Engineering Technician Apprentice, you will need to demonstrate throughout your apprenticeship programme how your practical experience is providing you with evidence to show that you have gained the appropriate Knowledge, Skills and Behaviours (KSB) outlined in the Apprenticeship Standard and the associated assessment criteria. Each apprenticeship standard has a unique set of KSB that must be achieved.

This guide provides an explanation of the relationship between the KSB outlined in the Apprenticeship Standard for the Construction Site Engineering Technician apprenticeship and the EngTech MICE attributes.

Each apprenticeship standard and assessment plan is unique and can be found on the Institute for Apprenticeships and Technical Education's [website](#).

Full details of the End Point Assessment (EPA) can be found in the [Construction Site Engineering Technician EPA guidance](#) which also includes the application form.

Our Membership Support Team (MST) can give you advice and guidance on all aspects of the End Point Assessment, please email membershipsupport@ice.org.uk or call +44 (0)121 227 5948 for help.



Level 4 Construction Site Engineering Apprenticeship

Knowledge

| Construction Site Engineering Apprenticeship | | EngTech MICE Attributes |
|--|---|-------------------------|
| K1 | Understand the principles and responsibilities, imposed law and other regulations in a construction environment | 4a |
| K2 | Understand the sustainability issues in projects across economic, social and environmental aspects | 5a |
| K3 | Understand engineering techniques, procedures and methods and the principles of design | 1a, 1b |
| K4 | Understand management principles and the project management lifecycle | 2a, 3a |
| K5 | Understand the importance of project planning and resourcing and be able to analyse different techniques | 2a, 3a |
| K6 | Able to define the quality required on a finished construction project | 2c |

Skills

| Construction Site Engineering Apprenticeship | | EngTech MICE Attributes |
|--|---|-------------------------|
| S1 | Identify risk of activities and encourage all employees to demonstrate safety-conscious behaviours. | 4a, 4b, 4c |
| S2 | Assess, identify and record the environmental impact of projects. | 5b |
| S3 | Assist in the implementation of the most appropriate solutions for construction projects. | 1c |
| S4 | Use effective management principles and be able to supervise construction workers. | 6b |
| S5 | Understand overall plan for project and measure and record progress against plan. | 2a, 3a |
| S6 | Assess and report on quality standards of finished construction projects. | 2c |

Behaviours

| Construction Site Engineering Apprenticeship | | EngTech MICE Attributes |
|--|--|-------------------------|
| B1 | Be able to work within own level of competence and know when to seek advice from others | 2b |
| B2 | Work within Rules and Regulations of Professional Competence and Conduct for the relevant PEI | 7a, 7b |
| B3 | Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested. | 7c |
| B4 | Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work. | 6d |
| B5 | Be able to contribute effectively to meetings and present information in a variety of ways including oral and written. | 6a |
| B6 | Be able to work with others in a collaborative and non-confrontational way. | 6b, 6c |
| B7 | Be able to identify areas for improvement and suggest innovative solutions. | 1c |

Engineering Technician Attributes

| Attribute | Sub Attributes | K | S | B |
|---|--|---------|------|---------|
| Understanding and Practical Application of Engineering | <ul style="list-style-type: none"> a) Use appropriate scientific, technical, or engineering principles b) Review and select appropriate techniques, procedures, and methods to undertake tasks c) Identify problems and apply appropriate methods to identify causes and achieve satisfactory solutions | 3 | 3, 5 | 7 |
| Understanding and Practical Application of Engineering | <ul style="list-style-type: none"> a) Identify tasks and organise resources to complete them effectively b) Work reliably and accept responsibility for their work or the work of others c) Complete tasks with due consideration for quality | 4, 5, 6 | 6 | 1 |
| Commercial Ability | <ul style="list-style-type: none"> a) Identify, organise, and use resources with consideration of cost | 4, 5 | 5 | |
| Health, Safety and Welfare | <ul style="list-style-type: none"> a) Understand the safety implications of the role b) Complete tasks with due consideration for safety c) Comply with safe systems of work | 1 | 1 | |
| Sustainable Development | <ul style="list-style-type: none"> a) Understand the principles of sustainable development and apply them in work b) Complete tasks with consideration for their environmental impact | 2 | 2 | |
| Interpersonal Skills and Communications | <ul style="list-style-type: none"> a) Communicate effectively with others, at all levels, in English¹ b) Work effectively with colleagues, clients, suppliers, or the public c) Demonstrate personal and social skills d) Demonstrate awareness of diversity and inclusion | | 4 | 4, 5, 6 |
| Professional Commitment | <ul style="list-style-type: none"> a) Understand and comply with the ICE Code of Conduct b) Understand the ethical issues that may arise in their role and carry out their responsibilities in an ethical manner c) Carry out and record the Continuing Professional Development (CPD) necessary to maintain and enhance competence in their own area of practice | | | 2, 3 |

¹ Please note: All assessments and reviews for Engineering Council registration will be conducted in English, subject to the provisions of the Welsh Language Act 1993.

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Our vision

Civil engineers at the heart of society, delivering sustainable development through knowledge, skills and professional expertise.

Core purpose

- To develop and qualify professionals engaged in civil engineering
- To exchange knowledge and best practice for the creation of a sustainable and built environment
- To promote our contribution to society worldwide

Diversity statement

As a membership organisation and an employer, we value diversity and inclusion - a foundation for great engineering achievement