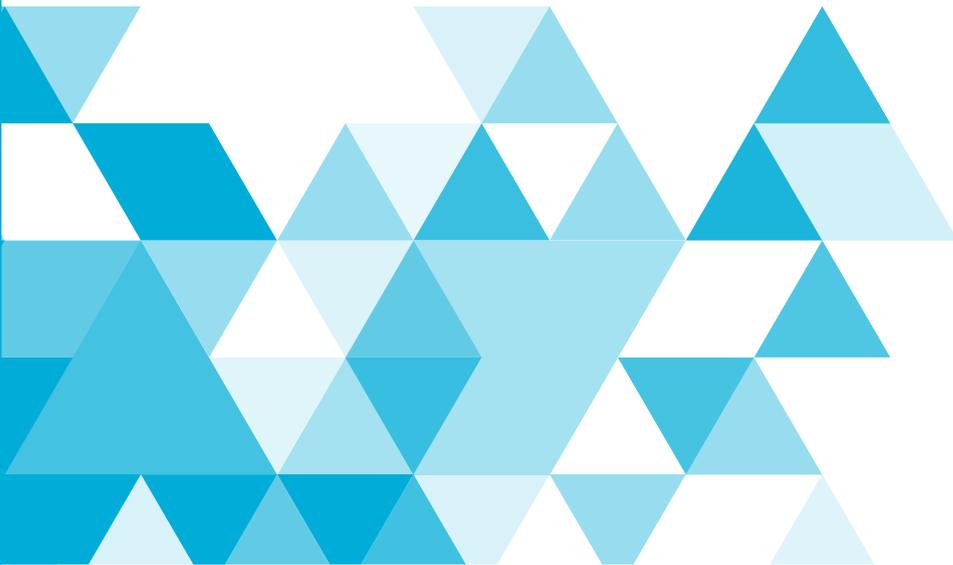




Construction Site Engineering Technician Apprenticeship Level 4

Mapping of Knowledge, Skills & Behaviours against
EngTech Standards



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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 standards.

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 Standard
K1	Health and Safety Understand the principles and responsibilities, imposed law and other regulations in a construction environment	E2
K2	Understand the sustainability issues in projects across economic, social and environmental aspects	E3
K3	Understand engineering techniques, procedures and methods and the principles of design	A2
K4	Understand management principles and the project management lifecycle	A
K5	Understand the importance of project planning and resourcing and be able to analyse different techniques	A1, B, C3
K6	Able to define the quality required on a finished construction project	C, A

Skills

Construction Site Engineering Apprenticeship		EngTech Standard
S1	Identify risk of activities and encourage all employees to demonstrate safety-conscious behaviours.	B, E, A1, C2, D
S2	Assess, identify and record the environmental impact of projects.	E3
S3	Assist in the implementation of the most appropriate solutions for construction projects.	A1, B1, E3
S4	Use effective management principles and be able to supervise construction workers.	C3, C2, C3, E2
S5	Understand overall plan for project and measure and record progress against plan.	B, D1, C2
S6	Assess and report on quality standards of finished construction projects.	C, D

Behaviours

Construction Site Engineering Apprenticeship		EngTech Standard
B1	Be able to work within own level of competence and know when to seek advice from others	A1, C
B2	Work within Rules and Regulations of Professional Competence and Conduct for the relevant PEI	E1, E5
B3	Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.	E4
B4	Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work.	D2 C3, E1, E5
B5	Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.	D1, D2
B6	Be able to work with others in a collaborative and non-confrontational way.	A, B1, C, D2
B7	Be able to identify areas for improvement and suggest innovative solutions.	A1, B1

EngTech Standards for L4 Construction Site Engineering

Engineering Technician Standards		K	S	B
A	A - Use engineering knowledge and understanding to apply technical and practical skills. This includes the ability to:	4, 6		6
	A1 - Review and select appropriate techniques, procedures and methods to undertake tasks.	5	1, 3	1, 7
	A2 - Use appropriate scientific, technical or engineering principles	3		
B	B - Contribute to the design, development, manufacture, construction, commissioning, operation or maintenance of products, equipment, processes, systems or services. In this context, this includes the ability to:	5	1, 5	
	B1 - Identify problems and apply appropriate methods to identify causes and achieve satisfactory solutions		3	6, 7
	B2 - Identify, organise and use resources effectively to complete tasks, with consideration for cost, quality, safety, security and environmental impact			
C	C - Accept and exercise personal responsibility. This includes the ability to:	6	6	1, 6
	C1 - Work reliably and effectively without close supervision, to the appropriate codes of practice			
	C2 - Accept responsibility for work of self or others		1, 5	
	C3 - Accept, allocate and supervise technical and other tasks		4	4
D	Use effective communication and interpersonal skills. This includes the ability to:		1, 6	
	D1 - Use oral, written and electronic methods for the communication in English of technical and other information		5	5
	D2 - Work effectively with colleagues, clients, suppliers or the public, and be aware of the needs and concerns of others, especially where related to diversity and equality.			4, 5, 6
E	E - Make a personal commitment to an appropriate code of professional conduct, recognising obligations to society, the profession and the environment.		1	
	E1 - Comply with the Code of Conduct of your institution.			2, 4
	E2 - Manage and apply safe systems of work.	1	2	
	E3 - Undertake engineering work in a way that contributes to sustainable development. This could include an ability to: <ul style="list-style-type: none"> Operate and act responsibly, taking account of the need to progress environmental, social and economic outcomes simultaneously 	2	3	
	E4 - Carry out and record CPD necessary to maintain and enhance competence in own area of practice including: <ul style="list-style-type: none"> Undertake reviews of own development needs Plan how to meet personal and organisational objectives Carry out planned (and unplanned) CPD activities Record and maintain evidence of competence development Evaluate CPD outcomes against any plans made Assist others with their CPD 			2, 3
	E5 – Exercise responsibilities in an ethical manner.			2, 4

Institution of Civil Engineers
One Great George Street
Westminster
London SW1P 3AA
UK

T: +44 (0) 20 7665 2012
E: membership@ice.org.uk
W: ice.org.uk

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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