



QUALIFICATION SPECIFICATION

**ECITB Diploma in Supporting Engineering Construction
Activities at SCQF Level 5**

Installation pathway

SQA Accreditation group award number R829 04

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1. Introduction

Objective and overview

The Engineering Construction Industry Training Board (ECITB) is the employer-led skills, standards, and qualifications body for the development of the engineering construction workforce of Great Britain. An arms-length body of the UK Government, the ECITB reports to the Department for Education.

The ECITB awarding body for accredited engineering construction qualifications is part of the industry training board. Our qualifications certify knowledge and competence across craft and technical disciplines. They improve quality and standards for the industry, helping engineering construction companies to stay competitive.

This document is for use by Approved Centres and their candidates. It is also used by ECITB's External Quality Assurers. It may also be of interest to employers and training providers.

This qualification is a knowledge and competence qualification. It is a work-based qualification based on the National Occupational Standards (NOS) for the Engineering Construction industry. NOS are developed by employers and professional bodies in conjunction with the ECITB Standard Setting Organisation and describe what employers mean by occupational competence within a particular job role.

The objective of this qualification is to:

- Prepare candidates for employment in supporting engineering construction activities in the engineering construction industry.
- Support candidates working in supporting engineering construction activities in the engineering construction industry.
- Enable candidates to progress to higher levels providing opportunities to possible supervisory and managerial roles.

Engineering Construction Operatives

Engineering construction industries require the support of operatives to construct, commission, maintain, overhaul and decommission a wide range of capital infrastructure, plant and systems. These activities assist in maintaining the safety, integrity and effective operation of plant and equipment in a wide range of industries of national importance including power generation, infrastructure (water, road, rail), petrochemical, oil and gas, steel, and food and drink processing.

Operatives work under the direct supervision of a crafts person, charge hand or supervisor to shape, assemble, position, install and dismantle a wide range of engineering construction components and materials; pipefitters and platers also carry out simple welding tasks. They assist in the assembly, installation, maintenance and repair of a wide range engineering construction plant and associated components. They are able to interpret specifications, engineering drawings and diagrams and understand the on-site hazards and health, safety and environmental requirements of plant and systems.

Under direct supervision, operatives are responsible for the quality of their own work and ensure their work is completed safely and meets the specification whilst increasing their own skills and capabilities. They are based on-site or in workshops/fabrication facilities where they work on various types of engineering infrastructure plant and systems dependent on their given sector.

Entry requirements

There are no mandatory entry requirements for this qualification. The qualification is open to any candidate who the Approved Centre believes can reach the assessment requirements set out within this document. A candidate must have a sound grasp of the English language and mathematics to be able to follow instructions as well as complete the learning and assessment required for this qualification. The Approved Centre will work with prospective candidates and, where appropriate, employers, to determine a candidate's suitability for the qualification.

Language

This qualification is available in English only. For candidates who use English as a second language, an Approved Centre must satisfy itself prior to registering a candidate that the candidate's level of English is sufficient to be able to access the learning and undertake the assessment at the appropriate level, and to be able to interact with others and work safely.

Achievement

This qualification consists of 11 mandatory units. A candidate must successfully meet the requirements in each of the units in order to attain this qualification. This document details the learning outcomes and assessment criteria that a candidate must meet in order to demonstrate the acquisition of the knowledge and skills needed to be awarded an ECITB Diploma in Supporting Engineering Construction Activities at SCQF Level 5 - Installation pathway. Mandatory observation of the candidate by an Approved Centre assessor is required to achieve this qualification.

The contents of each unit within the qualification interrelate and the AB issues credit certificates for completion of stand-alone units, on request from the Approved Centre. The qualification contains the following units:

ECITB unit number	SQA Accreditation unit number	Unit title	SCQF level	SCQF Credit
ECITBCO-S1	UT09 04	Contribute to effective working relationships in engineering construction	5	6
ECITBCO-S2	UT55 04	Work safely and minimise risk in engineering construction	6	10
ECITBCO-S4	UT56 04	Work with environmental sustainability in mind	6	6
ECITBCO-S5	UT23 04	Interpret and follow documentation and procedures	6	6
ECITBCO-S6	UT54 04	Use digital technology and information effectively and securely	5	2
SAEC-01S	UT35 04	Prepare work areas in support of engineering construction activities	5	9
SAEC-05S	UT37 04	Reinstate the work area after completing engineering construction activities	5	8
SAEC-04S	UT27 04	Move engineering construction loads using manually operated equipment	5	8
SAEC-10S	UT45 04	Support the assembly of components, equipment and systems in engineering construction	5	10

SAEC-11S	UT47 04	Support the positioning and installation of equipment and systems in engineering construction	5	10
SAEC-12S	UT46 04	Support the dismantling of equipment and systems in engineering construction	5	24

Credit and level

Credit is a value attached to each unit and each qualification, based on the amount of time it would take the average candidate to achieve and demonstrate the learning outcomes of a qualification. In practice, individual candidate requirements and individual delivery methods mean there will be variation in the actual time taken to complete a qualification. Credit are estimates, based on consultation with industry practitioners, supervisors, and assessors. One credit point is equivalent to 10 hours. Credit includes:

- Formal input, e.g. contact time with tutor, acquisition of knowledge/understanding. Off the job time.
- Additional activities, e.g. developing practice, reflection, research/study time. On the job time.
- Assessment, e.g. planning, completion of assessment tasks.

This qualification has 99 credit points.

The credit points allow candidates, learning providers and employers to compare the size of different qualifications.

In some instances, it may be possible to transfer SCQF credit points to and from other learning programmes This will enable a candidate to include evidence of prior knowledge and competence and to ensure they do not repeat learning previously undertaken.

Universities, colleges, SQA Accreditation and other awarding bodies decide how many of the credit points received from previous learning can be transferred into their programmes. In all cases of credit transfer, it would be the decision of the accepting learning provider as to how many credit points could be transferred. Please refer to the *ECITB Recognition of Prior Learning Policy and Procedures*.

Time limits on the process of credit accumulation or exemptions are set out for each unit within the qualification structure.

This qualification is at SCQF Level 5. The SCQF descriptor for Level 5 is:

<p>Characteristic 1:</p> <p>Knowledge and understanding</p>
<p>Demonstrate and/or work with:</p> <p>Basic knowledge.</p> <p>Arrange of simple facts, ideas and theories in, about, and associated with, a subject/discipline/sector.</p> <p>Knowledge and understanding of basic processes, materials and terminology</p>
<p>Characteristic 2:</p> <p>Practice: Applied knowledge, skills and understanding</p>
<p>Apply knowledge, skills and understanding:</p> <p>Relate knowledge and ideas to personal and/or practical contexts.</p> <p>Use a range of skills associated with the subject/discipline/sector to complete some routine and non-routine tasks.</p>

<p>Plan and organise both familiar and unfamiliar tasks.</p> <p>Select appropriate tools and materials and use them safely and effectively.</p> <p>Adjust tools where necessary following safe practices.</p>
<p>Characteristic 3:</p> <p>Generic cognitive skills</p>
<p>Use a process to deal with a problem, situation or issue that is straightforward.</p> <p>Operate in a familiar context, but where there is a need to take account of or use additional information of different kinds, some of which will be theoretical or hypothetical.</p>
<p>Characteristic 4:</p> <p>Communication, ICT, and numeracy skills</p>
<p>Use a range of routine skills, for example:</p> <p>Produce and respond to detailed written and oral communication in familiar contexts.</p> <p>Use standard ICT applications to process, obtain and combine information.</p> <p>Use a range of numerical and graphical data in routine contexts that may have some non-routine elements.</p>
<p>Characteristic 5:</p> <p>Autonomy, accountability and working with others</p>
<p>Work alone or with others on tasks with minimum directive supervision.</p> <p>Agree goals and responsibilities for self and/or work team.</p> <p>Take lead responsibility for some tasks.</p> <p>Show an awareness of own and/or others' roles, responsibilities and requirements in carrying out work and contribute to the evaluation and improvement of practices and processes.</p>

Equity, diversity and inclusion

We have designed this qualification and its assessments to enable fair access to all candidates as far as reasonably possible, while taking industry requirements into consideration, e.g. health and safety.

You may wish to refer to our *Equal Opportunities Policy* and the *Reasonable Adjustments and Special Considerations Policy and Procedure* that are published on the ECITB website.

If you would like to discuss arrangements for reasonable adjustments, please contact us at qualifications@ecitb.org.uk.

Progression

Completing this qualification can lead to a range of further career options. Those who wish to stay in engineering construction can develop their skills further, or progress through supervision to senior positions such as Construction Manager. Individuals can progress through additional qualifications and apprenticeships or into supporting engineering functions such as technical leadership, procurement, quality assurance, project management or project controls.

2. Qualification units and scope of assessment

2.1 Unit features

This qualification consists of 11 mandatory units. Candidates must attain all the learning outcomes in each unit to gain a Pass in the qualification. Candidates attain a learning outcome by meeting each of the assessment criteria linked to the learning outcome at the appropriate standard. The units in this specification show the assessment criteria that a candidate must meet to attain the learning outcomes.

The qualification grade available is Pass.

Each unit has the following sections:

ECITB unit number

The unique unit code that identifies the unit on ECITB's system.

SQA Accreditation unit number

The unique unit code that the regulator (SQA Accreditation) uses to identify the unit.

Unit title

The name of the unit, which reflects the content of the unit.

SCQF level

These levels measure the degree of challenge posed by the qualification compared to other qualifications. The levels are determined by using the SCQF and EQF level descriptors.

Credit value

The credit value represents the learning time being defined as the time taken by candidates at the level of the unit, on average, to complete the learning outcomes of the unit to the standard determined by the assessment criteria.

Unit aim

A summary of what the unit enables the candidate to do.

Learning outcomes

What a candidate will know, understand and/or be able to do upon attainment of the unit. Each learning outcome starts with the letters LO.

Assessment criteria

The requirements a candidate is expected to meet to demonstrate the attainment of the related learning outcome. Each assessment criterion starts with the letter K if it relates to knowledge or understanding and with the letter S if it relates to skills. Each assessment criterion starts with a command verb which instructs the candidate in what to do.

Assessment

This section outlines how the unit will be assessed.

Standards

The National Occupational Standard(s) that the unit is mapped to.

2.2 Underpinning knowledge and skills

Units ECITBCO-S1 to ECITBCO-S6 detail the factual, procedural and theoretical knowledge that the candidate must acquire and also demonstrate on plant, equipment and systems of their selected discipline:

- Relevant national and industry health, safety and environmental standards and legislation and those relevant to the specific disciplines, as appropriate.
- Site safety responsibilities, own and others including: first aid procedures, evacuation procedures and contingency reporting.
- Types and effects of hazards, safety assessment methods and techniques and how to minimise associated risks.
- Relationships: importance of understanding of work relationship problems.
- Lines of communication, reporting lines and levels of responsibility in the workplace.

- The importance of ethical working and the sustainable use of resources including: codes of conduct, minimising the impact of work on the environment.
- The importance of questioning and demonstrating initiative in day-to-day problem solving.
- Procedures and related documentation and responsibility for reporting and following procedures.
- Preparation and reinstatement of the work area including: preparing, checking and handling material; types of equipment and the related care and control procedures; storing and disposing of material; handing over plant and equipment.

2.3 Plant, equipment and systems specific fabrication and installation knowledge and skills

Units SAEC-01S to SAEC-12S are discipline specific and the candidate must demonstrate their application of knowledge and skills on plant, equipment and systems.

The candidate is required to effectively demonstrate the theoretical, factual and procedural knowledge and practical skills of the following units that comprise the qualification in accordance with the stated assessment criteria and scope of assessment provided in this document:

ECITBCO-S1	Contribute to effective working relationships in engineering construction
ECITBCO-S2	Work safely and minimise risk in engineering construction
ECITBCO-S4	Work with environmental sustainability in mind
ECITBCO-S5	Interpret and follow documentation and procedures
ECITBCO-S6	Use digital technology and information effectively and securely
SAEC-01S	Prepare work areas in support of engineering construction activities
SAEC-05S	Reinstate the work area after completing engineering construction activities
SAEC-04S	Move engineering construction loads using manually operated equipment
SAEC-10S	Support the assembly of components, equipment and systems in engineering construction
SAEC-11S	Support the positioning and installation of equipment and systems in engineering construction
SAEC-12S	Support the dismantling of equipment and systems in engineering construction

2.3 Further information

For further information either visit the ECITB website or contact the ECITB Awarding Body:

Office F15, Kings House Business Centre, Home Park Estate

Station Road, Kings Langley, WD4 8LZ

Email: Qualifications@ecitb.org.uk

Website: www.ecitb.org.uk

2.4 Units

ECITB unit:	ECITBCO-S1 Contribute to effective working relationships in engineering construction
SQA Accreditation unit code: UT09 04	
SCQF level: 5 Credit value: 6	
<p>Unit purpose and aim: This unit has been designed to assess learner competence in being able to:</p> <ol style="list-style-type: none"> 1. Establish and maintain productive working relationships 2. Deal with disagreements in an amicable and constructive way so that good relationships are maintained 3. Keep others informed about work plans or activities which affect them 4. Seek assistance from others in a polite and courteous way without causing undue disruption to normal work activities 5. Respond in a timely and positive way when others ask for help or information 	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from ECITB/ECRS 11.04 (CO 1)</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand lines of communication and responsibilities	K1.1 Explain the individual's responsibilities and the responsibilities of others within the work location
	K1.2 Describe the lines of communication that exist within the individual's working environment and explain the agreed procedure for passing information

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO2 Understand the importance of creating and maintaining working relationships	K2.1 Describe the individual's responsibilities for creating and maintaining working relationships and explain why it is important to do so
LO3 Understand problems affecting relationships	K3.1 Describe different problems that can affect relationships, and the actions that can be taken to deal with specific difficulties
LO4 Establish and maintain productive working relationships	S4.1 Develop working relationships with different people in the work environment such as: those for whom they are responsible, those to whom they are responsible, clients, colleagues, other tradespersons, suppliers, security/safety personnel
LO5 Deal with disagreements in an amicable and constructive way so that effective relationships are maintained	S5.1 Respond in a positive way when others ask for help or information
	S5.2 Treat everyone fairly and with respect and support the creation of a welcoming and inclusive environment for everyone
	S5.3 Maintain effective relationships by: <ul style="list-style-type: none"> a. Resolving disagreements in a constructive and objective manner b. Escalating if needed c. Reporting, in accordance with procedures
LO6 Seek assistance from others in a polite and courteous way without causing undue disruption to normal working activities	S6.1 Maintain effective relationships by seeking assistance from others in a polite and courteous manner
LO7 Respond in a timely and positive way when others ask for help or information	S7.1 Follow relevant work or professional codes of conduct, as appropriate for their role
	S7.2 Requests for help and information to identify exactly what is required
	S7.3 Resolve problems within the limits of their authority as they arise

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment. Such methods may include discussions about product evidence and questioning.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	ECITBCO-S2 Work safely and minimise risk in engineering construction
SQA Accreditation unit code: UT55 04	
SCQF level: 6 Credit value: 10	
<p>Unit purpose and aim: This unit has been designed to assess learner competence in being able to:</p> <ol style="list-style-type: none"> 1. Work safely at all times, complying with health and safety and other relevant regulations and guidelines 2. Call for expert help in the event of contingencies occurring, using warning systems as appropriate 3. Take prompt and appropriate action to minimise risk of personal and third-party injury as a first priority and then damage to property and equipment 4. Follow shutdown and evacuation procedures promptly and correctly 5. Deal safely with dangers that can be contained using appropriate equipment and materials, in accordance with organisational policy and procedures <p>In the context of this unit, responsibility is limited to working within an overall risk control strategy which has been developed by safety specialists and which includes detailed criteria for identifying risks together with clearly defined procedures for action which must be followed. In some cases, the learner may be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from ECITB/ECRS 10.06 (CO 2), NOS ECITB (CO 4)</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
	K1.1 Explain the requirements of health and safety legislation

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.2 Explain the consequences for employers and employees of not fulfilling their legal health and safety responsibilities
	K1.3 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	K1.4 Manage hazards and the associated risk and their responsibility in relation to dealing with and reporting hazards including what risks there are in relation to health and safety
LO2 Understand personal site safety responsibilities	K2.1 Demonstrate how to recognise health and safety training needs, the procedure for requesting training and who to ask for help in understanding the work instructions
	K2.2 Explain how to get information relating to the safe use of equipment and how to ensure the equipment is used safely
	K2.3 Demonstrate how to recognise when personal protective equipment should be used and how to select and use the correct equipment for the work to be undertaken
	K2.4 Explain different types of vibration injuries and explain how they can be prevented
	K2.5 Explain the importance of personal behaviour in maintaining workplace standards
	K2.6 Demonstrate the checks which are needed to make sure that portable electrical appliances are safe to use
	K2.7 Demonstrate what a safe system for electrical isolation should include and why low voltage is generally safer in relation to health and safety
	K2.8 Explain the risks from overhead cables and how to control them
	K2.9 Demonstrate what must be done when carrying hazardous substances in vehicles

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	K2.10 Explain where asbestos is likely to be found, what should be done if it is thought to have been found and how it is a risk to health
LO3 Understand others' site safety responsibilities	K3.1 Explain who is responsible for ensuring that equipment is checked and safe to use
	K3.2 Explain the need for health and safety training for themselves and others in a workplace and the procedures for requesting training
	K3.3 Explain the consequences for employers and employees of not fulfilling their legal health and safety responsibilities
LO4 Demonstrate first aid procedures	S4.1 Follow relevant first aid procedures that typically relate to the workplace
	S4.2 Demonstrate where information, competent assistance and local first aid facilities can be obtained
LO5 Understand and follow evacuation procedures	S5.1 Follow relevant evacuation procedures that typically apply in the workplace
	S5.2 Demonstrate where information and competent assistance for evacuation can be obtained
LO6 Follow contingency reporting procedures	S6.1 Complete contingency reporting documentation following relevant systems to workplace activities
LO7 Follow appropriate reporting lines and procedures	S7.1 Comply with the various reporting lines and procedures that apply in the working environment

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from discussions with candidates about work-based activities on suitable engineering construction industry sites
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or realistic workplace environment. Such methods may include discussions about product evidence and questioning.

Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.

Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.

ECITB unit:	ECITBCO-S4 Work with environmental sustainability in mind
SQA Accreditation unit code: UT56 04	
SCQF level: 6 Credit value: 6	
<p>Unit purpose and aim: This unit has been designed to assess learner competence in being able to:</p> <ol style="list-style-type: none"> 1. Explain how to establish and maintain environmental sustainability 2. Explain how to deal with environmental considerations 3. Explain how to keep others informed about environmental plans or activities which affect them 4. Describe how to minimise use of resources and production of waste materials 5. Understand how to store re-usable materials and dispose of waste materials 6. Explain how to report environmental information, improvements, concerns or incidents 	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from ECITB/ECRS 11.04 (CO 5)</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Work in a way that contributes to environmental sustainability	K1.1 Describe how to reduce impact on the environment by following environmentally safe working practices and taking precautions to minimise environmental damage
LO2 Understand the move towards a net zero future, in accordance with their organisation's policies and targets	K2.1 Explain how to deal effectively with resources taking environmental considerations into account
	K2.2 Describe how to minimise use of resources, where possible
	K2.3 Describe how to minimise the production of waste wherever and however possible

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	K2.4 Explain the correct disposal of waste materials
	K2.5 Explain how to store re-usable materials and equipment in accordance with procedures
LO3 Understand reporting lines and responsibility	K3.1 Report any environmental incidents, concerns or improvements that are identified

<p>Assessment requirements or guidance specified by a sector regulatory body (if appropriate)</p>	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from discussions with candidates about work-based activities on suitable engineering construction industry sites or realistic workplace environment. Such methods may include discussions about product evidence and questioning.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	ECITBCO-S5 Interpret and follow documentation and procedures
SQA Accreditation unit code: UT23 04	
SCQF level: 6 Credit value: 6	
<p>Unit purpose and aim: This unit has been designed to assess learner competence in being able to:</p> <ol style="list-style-type: none"> 1. Interpret and follow documented procedures 2. Understand the principles of documentation 3. Understand the principles of quality control 4. Understand the principles of legal documentation 5. Understand the conventions of documentation and information communication 6. Understand the hazards arising from tools and equipment 	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from ECITB/ECRS 11.04 (CO 1)</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Interpret and follow documentation and procedures	K1.1 Check the revisions, date and validity of documentation
	K1.2 Check the revisions, date and validity of documentation
	K1.3 Interpret equipment manuals, relevant plans and schedules
	K1.4 Follow authorization procedures, quality procedures and related documentation
	K1.5 Complete all relevant documentation correctly

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	K1.6 Report defects or variations and any instance where the activity cannot be met K1.7 Check that all required actions are completed, and reports are finished K1.8 Follow appropriate handover procedures K1.9 Follow safety procedures, risk assessments and methods of work K1.10 Reinstate the work area, materials, tools and equipment
LO2 Understand the principles and conventions of documentation	K2.1 Explain the principles, uses and conventions of engineering drawings K2.2 Describe the relevance of worksheets, technical drawings and related specifications K2.3 Describe the relationship between details and diagrams in engineering drawings and specifications K2.4 Explain the diagrams and key information in catalogues and equipment manuals K2.5 Describe the sources of manufacturer or additional relevant information K2.6 Explain the use of plans and schedules K2.7 Describe procedures and authorisations of related to tasks undertaken K2.8 Describe quality control and documentation procedures K2.9 Describe the importance of checking and confirming procedures and documentation K2.10 Describe the importance of signing legal documentation and the consequences accountabilities K2.11 Describe reporting of tasks undertaken

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	K2.12 Explain actions to take in the event of variations to the plan of work
	K2.13 Describe reporting lines and procedures
LO3 Understand the hazards arising from tools and equipment	K3.1 Describe the hazards that can arise from preparing work materials, tools and equipment
	K3.2 Describe the hazards that can arise from reinstating work materials, tools and equipment

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from discussions with candidates about work-based activities on suitable engineering construction industry sites or realistic workplace environment. Such methods may include discussions about product evidence and questioning.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	ECITBCO-S6 Use digital technology and information effectively and securely
SQA Accreditation unit code: UT54 04	
SCQF level: 5 Credit value: 2	
Unit purpose and aim: This unit has been designed to assess learner competence in being able to interpret and use basic digital information and technology securely.	
Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate) Derived from ECITB/ECRS 11.04 (CO 1)	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Have a knowledge of basic digital information and technology	K1.1 Demonstrate awareness of the need for security of digital data and technology use in the workplace, the reasons for and importance of this, including relevant legal aspects
	K1.2 Describe simple permission levels related to data access
	K1.3 Demonstrate awareness of the requirement of passwords in data security and how to manage passwords effectively, as appropriate for their role
	K1.4 Describe how to use software and digital systems necessary for their role
	K1.5 Describe how to use digital technology and equipment necessary for their role

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	K1.6 Demonstrate awareness of how to handle digital content and online information, as relevant to their role K1.7 Demonstrate appreciation of how to conduct basic searches online, safely and appropriately to find digital information related to their role K1.8 Demonstrate awareness of how to verify information, related to the task in hand and job role, is appropriate and correct K1.9 Describe how to learn and work remotely using IT K1.10 Demonstrate awareness of the benefits of e-learning and immersive technology for training and professional development and how to use and access this
LO2 Interpret and use basic technology and information	S2.1 Use basic digital information and technology securely in accordance with company procedures S2.2 Search, select and use work-related digital information, as requested by a supervisor, to support delivery of work-related tasks S2.3 Handle standard digital content in order to communicate information, as required for their role in accordance with requests or procedures
LO3 Comprehend standard digital technology and use effectively and securely	S3.1 Use the basic features of relevant digital technology and equipment, as relevant to their role S3.2 Use standard technology to save and send digital information, in accordance with procedures S3.3 Access appropriate help and support when problems with digital technology arise S3.4 Use a range of available technology for training and professional development

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from discussions with candidates about work-based activities on suitable engineering construction industry sites or realistic workplace environment. Such methods may include discussions about product evidence and questioning.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	SAEC-01S Prepare work areas in support of engineering construction activities
SQA Accreditation unit code: UT35 04	
SCQF level: 5 Credit value: 9	
<p>Unit purpose and aim:</p> <p>This unit has been designed to assess learner competence in being able to prepare materials in support of engineering construction activities.</p> <p>In the context of this unit, responsibility is limited to working within clearly defined procedures. In some cases, the learner may still be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions within the limits of their responsibility.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from NOS ECISAEC01 and SAEC01</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.1 Explain the requirements of health and safety legislation
	K1.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	K1.3 Describe the hazards and risks that can arise from preparing work areas
	K1.4 Describe work area preparations and requirements and terminology
	K2.1 Describe service supply and connection procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO2 Understand the tools, terminology, techniques and practices for preparing work areas in support of engineering construction activities	K2.2 Describe the types of equipment to be prepared for supporting activities
	K2.3 Describe identification of materials, defects and serviceability
	K2.4 Describe material handling and preparation terminology
	K2.5 Describe material handling methods and techniques
	K2.6 Describe the consequences of not correctly preparing work areas, equipment, tools and materials
	K2.7 Describe the types of tools and equipment used and explain the care and control procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO3 Work safely and comply with health and safety at all times	K3.1 Ensure the work environment is suitable for the work activities to be undertaken
	K3.2 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	K3.3 Work in accordance with guidelines and local rules or procedures
LO4 Work safely and minimise risk at all times	S4.1 Identify a range of hazards
	S4.2 Recognise the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	S4.3 Describe the hazards and risks that can arise from preparing work areas
	S4.4 Report completion of preparations in line with organisational procedures
	S4.5 Prepare the work area for the engineering activities to be carried out
	S4.6 Ensure all services and supplies are connected correctly
	S4.7 Obtain all equipment and carry out pre-use operational and calibration checks
	S4.8 Obtain materials and check for quality, quantity and carry out preparations
	S4.9 Carry out preparation activities using suitable tools and equipment
	S4.10 Ensure all permits and method statements are in place
	S4.11 Confirm completion of preparation activities
	S4.12 Deal promptly and effectively with problems and report those that cannot be solved

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO5 Prepare work area, materials and equipment	S5.1 Ensure that the work environment is suitable for the work activities to be undertaken

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body.</p> <p>They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Mandatory workplace observation is required for Assessment Criteria S4.3, S4.4, S4.5, S4.6, S4.7, S4.8, S4.9, S4.10 & S4.11 which may take the form of an expert witness testimony supported by photographic and/or video evidence.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	SAEC-05S Reinstate the work area after completing engineering construction activities
SQA Accreditation unit code UT37 04	
SCQF level: 5 Credit value: 8	
<p>Unit purpose and aim:</p> <p>This unit has been designed to assess learner competence in being able to reinstate the work area after completing engineering activities in the engineering construction industry.</p> <p>In the context of this unit, responsibility is limited to working within agreed specifications and following clearly defined procedures with regard to the storage of resources but allows discretion to achieve satisfactory restoration of the work area according to local user needs. In some cases, the learner may still be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from NOS ECISAE05 and SAEC05</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.1 Identify reinstatement procedure for materials, equipment, tools and resources
	K1.2 Identify storage locations for materials, equipment, tools and resources
	K1.3 Describe safe handling techniques
	K1.4 Describe correct labelling and storage procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	K1.5 Describe disposal and recycling of materials in accordance with environmental procedures K1.6 Describe quarantine procedures K1.7 Explain storage documentation as required K1.8 Describe restoration and reinstatement of the work area K1.9 Explain related documentation for completion of reinstatement K1.10 Deal promptly and effectively with problems and report those that cannot be solved
LO2 Understand health and safety legislation, regulations and safe working practices and procedures	K2.1 Explain the requirements of health and safety legislation K2.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes K2.3 Describe the hazards and risks that can arise from preparing work materials K2.4 Describe reporting lines and procedures K2.5 Relevance of local procedures and guidance impact and related actions

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO3 Understand reinstatement procedures, health and safety regulations	K3.1 Explain reinstatement procedure and actions to be taken
	K3.2 Describe specific requirements on how to restore the work area
	K3.3 Explain the importance of good housekeeping standards
	K3.4 Explain the correct storage of materials, tools, equipment and resources for future use
	K3.5 Describe health and safety requirements for waste disposal and segregation in relation to environmental regulations
LO4 Work safely and minimise risk at all times	S4.1 Ensure the work environment is suitable for the work activities to be undertaken
	S4.2 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	S4.3 Work in accordance with guidelines and local rules or procedures
LO5 Reinstatement the work area after completing engineering construction activities	S5.1 Identify a range of hazards
	S5.2 Take appropriate action to minimise the risk from hazards
	S5.3 Refer safety related matters to appropriate persons as required
	S5.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	S5.5 Work in accordance with the requirements of risk assessments and permit to work systems

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Mandatory workplace observation is required for Assessment Criteria S5.2, S5.3, S5.4 & S5.5 which may take the form of an expert witness testimony supported by photographic and/or video evidence.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	SAEC-04S Move engineering construction loads using manually operated equipment
SQA Accreditation unit code: UT27 04	
SCQF level: 5 Credit value: 8	
<p>Unit purpose and aim:</p> <p>This unit has been designed to assess learner competence in being able to move engineering construction loads using manually operated equipment in support of engineering construction activities.</p> <p>In the context of this unit, responsibility is limited to working within detailed specifications and clearly defined procedures. In some cases, the learner may still be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions within the limits of their responsibility.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from NOS SAEC04 and NOS ECIML02</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.1 Explain the requirements of health and safety legislation
	K1.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	K1.3 Describe the hazards and risks that can arise from preparing work materials
	K1.4 Describe reporting lines and procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO2 Understand the tools, terminology, techniques and practices for preparation and reinstatement	K2.1 Describe the methods and techniques of preparation of work area, materials and equipment
	K2.2 Describe the methods and techniques of reinstatement of the work area, materials and equipment
	K2.3 Describe the possible consequences of incorrect actions in preparation of the work area
	K2.4 Describe the possible consequences of incorrect action in reinstatement of the work area

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO3 Understand the tools, terminology, techniques and practices for moving engineering construction loads by manually operated equipment	K3.1 Describe how to establish load assessment and techniques
	K3.2 Describe the lifting, moving and handling equipment used when moving loads
	K3.3 Describe hazards and aspects of change during movement operations
	K3.4 Explain load handling and setting down methods and techniques
	K3.5 Describe the roles and responsibilities of lifting team members
	K3.6 Describe types of communication used during the movement of loads
	K3.7 Describe the types of tools and equipment used and explain the care and control procedures
LO4 Understand health and safety legislation, environmental regulations and safe working practices and procedures	S4.1 Ensure the work environment is suitable for the work activities to be undertaken
	S4.2 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	S4.3 Work in accordance with guidelines and local rules or procedures
	S4.4 Ensure the work environment is suitable for the work activities to be undertaken
LO5 Prepare work area, materials and equipment	S5.1 Prepare work environment, materials, equipment and tools for activities
	S5.2 Position the moving equipment so that the weight of the load is evenly distributed
	S5.3 Confirm the load is secure before moving
	S5.4 Move the load over the selected suitable route

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	S5.5 Position and land the load safely in its designated lay down area
	S5.6 Use appropriate communication methods during the movement of loads
	S5.7 Ensure the work area is reinstated
	S5.8 Deal promptly and effectively with problems and report those that cannot be solved

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Mandatory workplace observation is required for Assessment Criteria S5.2, S5.3, S5.4, S5.5, & S5.6 which may take the form of an expert witness testimony supported by photographic and/or video evidence.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	SAEC-10S Support the assembly of components, equipment and systems in engineering construction
SQA Accreditation unit code: UT45 04	
SCQF level: 5 Credit value: 10	
<p>Unit purpose and aim:</p> <p>This unit has been designed to assess learner competence in being able to support the assembly of components, equipment and systems in engineering activities in the engineering construction industry.</p> <p>In the context of this unit, responsibility is limited to working within agreed specifications and following clearly defined procedures with regard to the storage of resources but allows discretion to achieve satisfactory restoration of the work area according to local user needs. In some cases, the learner may still be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from SAEC010 and NOS ECISAEC10</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.1 Explain the requirements of health and safety legislation
	K1.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	K1.3 Describe the hazards and risks that can arise from shaping operations
	K1.4 Describe reporting lines and procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO2 Understand work area, material and equipment preparation and reinstatement requirements	K2.1 Explain the principles, uses and conventions of engineering drawings and related specifications
	K2.2 Describe the fundamental tools, equipment, methods and techniques used to assemble components
	K2.3 Identify the types, grade, material and storage of fastenings used to assemble components
	K2.4 Explain handling and transportation equipment and procedures
	K2.5 Describe necessary support methods
	K2.6 Describe quality control methods and procedures
	K2.7 Describe care and control of tools and equipment

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO3 Work safely and minimise risk at all times	K3.1 Identify a range of hazards
	K3.2 Take appropriate action to minimise the risk from hazards
	K3.3 Refer safety related matters to appropriate persons as required
	K3.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	K3.5 Work in accordance with the requirements of risk assessments and permit to work systems
LO4 Prepare work area, materials and equipment	S4.1 Ensure that the work environment is suitable for the work activities to be undertaken
	S4.2 Ensure that service supplies are connected and ready for use
	S4.3 Ensure that consumables are as specified and fit for purpose
	S4.4 Obtain and prepare the appropriate tools and equipment and ensure they are in a safe and usable condition
	S4.5 Ensure the materials are prepared to the required procedure
	S4.6 Ensure completion of preparations in line with organisational procedures
LO5 Prepare work area, materials and equipment	S5.1 Use relevant instructions, assembly drawings and specifications
	S5.2 Ensure approved methods and techniques are used to assemble components
	S5.3 Ensure necessary support systems are in place
	S5.4 Assist in securing components using specified connectors under supervision

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	S5.5 Check the completed assembly to ensure that all operations have been completed and meets the specification
	S5.6 Undertake foreign matter exclusion
	S5.7 Seek confirmation that the assembly is complete and complies with specification
	S5.8 Reinststate the work area
	S5.9 Deal promptly and effectively with problems and report those that cannot be solved

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Mandatory workplace observation is required for Assessment Criteria S5.3, S5.4, S5.5, S5.6 & S5.7 which may take the form of an expert witness testimony supported by photographic and/or video evidence.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	SAEC-11S Support the positioning and installation of equipment and systems in engineering construction
SQA Accreditation unit code: UT47 04	
SCQF level: 5 Credit value: 10	
<p>Unit purpose and aim:</p> <p>This unit has been designed to assess learner competence in being able to support the positioning and installation of equipment and systems in engineering activities in the engineering construction industry.</p> <p>In the context of this unit, responsibility is limited to working within agreed specifications and following clearly defined procedures with regard to the storage of resources but allows discretion to achieve satisfactory restoration of the work area according to local user needs. In some cases, the learner may still be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from NOS ECISAEC11 and IPS-S3</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.1 Explain the requirements of health and safety legislation
	K1.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	K1.3 Describe the hazards and risks that can arise from positioning and installation operations
	K1.4 Describe reporting lines and procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO2 Understand work area, material and equipment preparation and reinstatement requirements for the supporting installation of pipework components, equipment and systems	K2.1 Describe the installation techniques and procedures.
	K2.2 Explain the tools used for positioning and installation of equipment and systems
	K2.3 Describe the methods of foreign material exclusion and the importance of conducting this process
	K2.4 Describe the types of defects in equipment and systems and the actions to be taken if found
	K2.5 Explain the consequences of poor-quality control
	K2.6 Describe the types of tools and equipment used for positioning and installation operations and explain the care and control procedures
	K2.7 Explain how to check that the installation has been carried to specification and the consequences of incorrect actions in installation
LO3 Work safely and minimise risk at all times	S3.1 Ensure the work environment is suitable for the work activities to be undertaken
	S3.2 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	S3.3 Work in accordance with guidelines and local rules or procedures
	S3.4 Ensure the work environment is suitable for the work activities to be undertaken
LO4 Understand materials, tools, equipment and procedures involved in supporting the positioning and installation of	S4.1 Prepare work environment, materials, equipment and tools for activities
	S4.2 Follow relevant instructions, assembly drawings and specifications
	S4.3 Check the components are free from damage

Learning outcomes The candidate will:	Assessment criteria The candidate can:
components, equipment and systems	S4.4 Assist in positioning and installing of equipment and systems under supervision
	S4.5 Conduct foreign matter exclusion
	S4.6 Ensure the installations are protected from the environment and damage
	S4.7 Check the completed installation to ensure that all operations have been completed and meets the specification
	S4.8 Seek confirmation that the installation is complete and complies with specification
	S4.9 Reinststate the work area
	S4.10 Deal promptly and effectively with problems and report those that cannot be solved

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body. They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Mandatory workplace observation is required for Assessment Criteria S4.3, S4.4, S4.5, S4.6, S4.7 & S4.8 which may take the form of an expert witness testimony supported by photographic and/or video evidence.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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ECITB unit:	SAEC-12S Support the dismantling of equipment and systems in engineering construction
SQA Accreditation unit code: UT46 04	
SCQF level: 5 Credit value: 24	
<p>Unit purpose and aim:</p> <p>This unit has been designed to assess learner competence in being able to support the dismantling of equipment and systems in engineering activities in the engineering construction industry.</p> <p>In the context of this unit, responsibility is limited to working within agreed specifications and following clearly defined procedures with regard to the storage of resources but allows discretion to achieve satisfactory restoration of the work area according to local user needs. In some cases, the learner may still be expected to refer to others for final authorisations, even though they remain responsible for identifying and implementing decisions.</p>	
<p>Details of the relationship between the unit and relevant National Occupational Standards or other professional standards or curricula (if appropriate)</p> <p>Derived from NOS ECISAEC12</p>	

Learning outcomes	Assessment criteria
The candidate will:	The candidate can:
LO1 Understand health and safety legislation, regulations and safe working practices and procedures	K1.1 Explain the requirements of health and safety legislation
	K1.2 Explain the purpose and nature of risk assessments, method statements, and permit to work systems, and the relevance of local procedures and guidance notes
	K1.3 Describe the hazards and risks that can arise from dismantling equipment and systems
	K1.4 Describe reporting lines and procedures

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO2 Understand work area, material and equipment preparation and reinstatement requirements for the dismantling of equipment and systems	K2.1 Describe methods and requirements for preparation and reinstatement work area, material and equipment
	K2.2 Explain the consequences of incorrectly preparing or reinstating the work areas, material and equipment

Learning outcomes The candidate will:	Assessment criteria The candidate can:
LO3 Understand the tools, terminology, techniques and practices for the dismantling of equipment and systems	K3.1 Explain the principles, uses and conventions of engineering drawings and identification of plant and equipment
	K3.2 Explain controlled and safe methods of stored energy discharge
	K3.3 Describe dismantling and component removal methods and techniques
	K3.4 Describe the fundamental principles of isolation
	K3.5 Describe principles of installation of temporary supports
	K3.6 Describe the correct component removal techniques and procedures
	K3.7 Explain the tools and techniques necessary to carry out dismantling activities
	K3.8 Describe quality control procedures and documentation procedures
	K3.9 Describe the types of tools and equipment used for dismantling operations and explain the care and control procedures
LO4 Work safely and minimise risk at all times	S4.1 Identify a range of hazards
	S4.2 Take appropriate action to minimise the risk from hazards
	S4.3 Refer safety related matters to appropriate persons as required
	S4.4 Work in accordance with relevant sections of the Health and Safety at Work Act and its associated regulations
	S4.5 Work in accordance with the requirements of risk assessments and permit to work systems

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	S4.6 Identify a range of hazards
LO5 Prepare work area, materials and equipment	S5.1 Ensure that the work environment is suitable for the work activities to be undertaken S5.2 Ensure that required service supplies are connected and ready for use S5.3 Ensure that consumables are as specified and fit for purpose S5.4 Obtain and prepare the appropriate tools and equipment and ensure they are in a safe and usable condition S5.5 Ensure the materials are prepared to the required procedure S5.6 Ensure completion of preparations in line with organisational procedures S5.7 Deal promptly and effectively with problems and report those that cannot be solved
LO6 Dismantle pipework components	S6.1 Follow relevant drawings and identify that the correct component has been selected S6.2 Mark the pipework components for the dismantling operations S6.3 Ensure all necessary isolations and disconnections to the equipment are complete S6.4 Ensure stored energy is released safely and support systems are in place S6.5 Assist with the installation of temporary supports S6.6 Assist with the dismantling of the equipment and components using correct tools and techniques

Learning outcomes The candidate will:	Assessment criteria The candidate can:
	S6.7 Assist in the removal of identified components using correct tools and techniques S6.8 Safely handle and transport the removed components in line with procedure S6.9 Deal promptly and effectively with problems and report those that cannot be solved

Assessment requirements or guidance specified by a sector regulatory body (if appropriate)	<p>Assessment of this unit will be by occupationally competent assessors approved by an awarding body.</p> <p>They will gather sufficient evidence of competence from work-based activities on suitable engineering construction industry sites or realistic workplace environment.</p> <p>Assessment criteria may be satisfied by observation, questioning, expert witness testimony, professional discussion or any other approved method.</p> <p>Mandatory workplace observation is required for Assessment Criteria S6.2, S6.3, S6.4, S6.5, S6.6, S6.7 & S6.8 which may take the form of an expert witness testimony supported by photographic and/or video evidence.</p> <p>Further guidance on this ECITB unit can be found in the SQA Accreditation ECITB Assessment Strategy document.</p>
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