



Unit title	Work Safely on Sites in Utilities Network Construction
SQA code	H8MG 04
SCQF level	5
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History of changes

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Title	Work Safely on Sites in Utilities Network Construction	
Learning Outcomes		Assessment Criteria
The learner will:		The learner can:
<p>1 Be able to prepare, segregate and protect the work site in accordance with approved procedures and practices.</p>	<p>1.1 Locate and confirm the area for works according to instructions and specified requirements.</p> <p>1.2 Plan work to minimise disruption and inconvenience to others in accordance with approved procedures and practices.</p> <p>1.3 Carry out a site-specific risk assessment to identify hazards.</p> <p>1.4 Determine the range of control signs and protection equipment necessary for the works.</p> <p>1.5 Review risk assessments in accordance with company procedures.</p> <p>1.6 Select and wear specified personal protective equipment (PPE), including high visibility vest or coat.</p> <p>1.7 Prepare and segregate areas for works in line with the specified requirements.</p> <p>1.8 Take steps to protect the safety of work area and the natural environment where hazards and risk are identified.</p> <p>1.9 Maintain security of the site where work is not completed.</p>	
<p>2 Be able to prepare the resources for site works in accordance with approved procedures and practices.</p>	<p>2.1 Select materials and equipment for planned works in accordance with work instructions and specifications.</p> <p>2.2 Confirm materials and equipment supplies are correct for work requirements and are of the quality and quantity required.</p>	

		2.3 Maintain in accordance with operational and organisational requirements: (a) The materials and equipment in Storage. (b) The security of materials and equipment .
3	Be able to use and communicate data and information in accordance with approved procedures and practices.	3.1 Use information from work instructions and specified requirements to locate the work site. 3.2 Use approved procedures and practices when communicating throughout the work activity to ensure work complies with statutory requirements. 3.3 Check with authorised personnel any circumstances where information appears incorrect. 3.4 Use organisational information systems to record and store data and information.
4	Be able to resolve problems which could arise from preparing the site and resource requirements in accordance with approved procedures and practices.	4.1 Record and report any shortages and defects of materials and equipment to the designated person. 4.2 Refer problems and conditions outside own responsibility to the designated person using approved procedures.
5	Know approved responsibilities and procedures for utilities network construction operations.	5.1 Describe the main responsibilities of the employer and employee under the Health and Safety at Work Act. 5.2 Explain the health and safety guidance governing work in excavations. 5.3 Describe safe procedures for handling Hazardous materials. 5.4 Explain own organisational accident recording and reporting procedures.

<p>6 Know how to work safely on site in accordance with approved procedures and practices when installing equipment.</p>	<p>6.1 Describe common hazards in site works, and fit-for-purpose safety precautions and hazard prevention methods that can be used.</p> <p>6.2 Describe how to respond to emergencies.</p> <p>6.3 Describe the range of safety equipment appropriate for site operations.</p> <p>6.4 Outline the main requirements of safety legislation governing site works.</p> <p>6.5 Describe materials that may pose a health hazard on site, and how to handle them safely.</p> <p>6.6 Describe personal protective equipment (PPE) that is used in site operations.</p> <p>6.7 Describe lifting and handling techniques appropriate to the materials, tools and equipment used in site works.</p>
<p>7 Understand the roles, responsibilities and procedures for installing equipment.</p>	<p>7.1 Describe the roles and responsibilities of people within the site operations team.</p> <p>7.2 Describe site management structures for operations on site.</p> <p>7.3 Explain the importance of referring problems outside own area of responsibility to designated persons.</p> <p>7.4 Describe the recording and reporting procedures for:</p> <ul style="list-style-type: none"> (a) Job progress. (b) Problems. (c) Deviations to work programmes. <p>7.5 Explain the importance of confirming that the work location has been identified correctly.</p>

	<p>7.6 Describe the types of information contained in written instructions, specifications and drawings.</p> <p>7.7 Outline the key requirements of an effective site layout.</p>
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Additional information about the Unit

Unit purpose and aim(s)

This unit allows learners to show that they have the skills and knowledge to install equipment for safe working on site during utilities network construction operations.

The learner must select appropriate safety equipment for the site, according to current Codes of Practice and legislation. They must prepare the appropriate types and quantities of materials and equipment for the works and maintain their safety and security. They must also show that they can communicate information to the relevant people and organisations throughout the operation, and must resolve or refer problems that arise during site works in line with own job responsibility.

Details of the relationship between the Unit and relevant national occupational standards (if appropriate)

Energy & Utility Skills Suite: Multi-Utility Network Construction Unit: 019N MUNC05 Install equipment for safe working on site for utilities network construction.

Details of the relationship between the Unit and other standards or curricula (if appropriate)

Assessment requirements specified by a sector or regulatory body (if appropriate)

1. **Characteristics and conditions of carriageway** include:
 - (a) Speed and volume of traffic.
 - (b) Volume of pedestrian traffic.
 - (c) Number and directions of lanes.
 - (d) Proximity of other features such as junctions, railway crossings, pedestrian crossings, roundabouts, traffic lights etc.
2. **Codes of Practice** are:
 - (a) Statutory.
 - (b) Regulatory, including New Roads and Street Works Act.
3. **Hazards** include:
 - (a) Traffic.
 - (b) Weather.
 - (c) Other activities.
4. **Control signs and protection equipment** include:
 - (a) Traffic signs.
 - (b) Cones.
 - (c) Lights.
 - (d) Barriers.
 - (e) Traffic lights.

(f) Stop and go boards.

5. **Approved procedures and practices** are:

- (a) Environmental.
- (b) Statutory.
- (c) Regulatory.
- (d) Emergency.
- (e) Operational.
- (f) Health and safety.
- (g) Organisational and company procedures.
- (h) Risk assessments.

6. **Materials and equipment** include:

- (a) Backfill and reinstatement materials.
- (b) Spoil.
- (c) Digging and hand tools.
- (d) Road breaking and cutting equipment.
- (e) Compaction equipment.

7. **Problems** arise from:

- (a) Traffic control.
- (b) Pedestrians.
- (c) Access to premises.
- (d) Equipment failure.
- (e) Materials shortage.

Some terms in the assessment criteria cover a range of situations. Refer to the full assessment requirements and guidance for this unit for a detailed list of terms and definitions, agreed with Energy & Utility Skills.

This unit must be assessed in line with the Energy & Utility Skills assessment strategy for vocational qualifications based on its NOS for Multi-Utility Network Construction.

The learner must either be observed by an assessor on at least one occasion, or must provide an observation report or witness testimony from their line manager as part of the evidence for this unit.

All evidence produced for this unit must come from real work activities undertaken by the learner in their workplace. Simulated activities or assessment in a realistic working environment may not be used for assessment of the unit.

Assessment (evidence) Requirements

Workplace evidence

The majority of the evidence used for this Unit must come from the learner's own work activities, both in their own 'reporting base' and carrying out network construction operations on site.

Knowledge and understanding

The knowledge and understanding requirements for this Unit must be covered in full. The learner may demonstrate considerable knowledge through their workplace performance and during observed assessments, but it is likely that some assessor questioning will be needed to confirm that all knowledge requirements are met.

Guidance on Instruments of Assessment

The evidence for this Unit is likely to be generated through a mixture of observation reports, assessor-guided discussions and questioning, and workplace records, reports, or documentation.