



Unit title	Operate Safely on the Water Distribution Network
SQA code	HC3R 04
SCQF level	5
SCQF credit points	7
SSC ref	DC01

History of changes

Publication date: March 2016

Version: 01

Version number	Date	Description	Authorised by

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Title	Operate Safely on the Water Distribution Network	
Learning Outcomes	Assessment Criteria	
The learner will:	The learner can:	
<p>1 Maintain safety of tools, equipment and the working environment.</p>	<p>1.1 Identify the hazards present in the working environment and determine how they will affect safe systems of work.</p> <p>1.2 Identify working methods, tools, equipment and hazardous locations that do not comply with health and safety specifications and safe systems of work and take relevant action.</p> <p>1.3 Maintain entrances to, and exits from, hazardous locations in accordance with relevant health and safety specifications.</p> <p>1.4 Maintain tools and equipment in safe and hygienic working condition.</p> <p>1.5 Ensure that the condition of the working environment meets statutory requirements and Codes of Practice.</p> <p>1.6 Keep accurate records to conform with health and safety specifications and safe systems of work.</p>	
<p>2 Maintain the health and safety of themselves and others.</p>	<p>2.1 Use lifting and handling practices that meet relevant guidance and safe systems of work.</p> <p>2.2 Use materials, tools and equipment in a safe and hygienic manner with due regard for their safety and the safety of others.</p> <p>2.3 Maintain and use personal protective equipment in accordance with safe systems of work and relevant Codes of Practice.</p> <p>2.4 Use and store safety clothing and equipment in line with safe systems of work and organisational requirements.</p>	

Learning Outcomes	Assessment Criteria
The learner will:	The learner can:
	<p>2.5 Take relevant action in the event of a dangerous occurrence, in line with safe systems of work and organisational requirements.</p> <p>2.6 Work in a way that ensures their own safety and the safety of anyone who could be affected by their activities.</p> <p>2.7 Follow safe working practices in line with relevant procedures and statutory requirements.</p>
<p>3 Sign, light and guard the work site.</p>	<p>3.1 Identify the safety and security requirements for the work site from instructions and specifications and in accordance with relevant Codes of Practice.</p> <p>3.2 Make plans for highways works that make satisfactory provision for:</p> <ul style="list-style-type: none"> (a) the working area (b) access and movement of vehicles (c) access and movement of personnel. <p>3.3 Identify, in line with organisational requirements and relevant Codes of Practice:</p> <ul style="list-style-type: none"> (a) the type of carriageway (b) category of works. <p>3.4 Set out and erect protection equipment in accordance with relevant Codes of Practice.</p> <p>3.5 Confirm that the positioning and condition of protection equipment meets the works requirements and relevant Codes of Practice.</p> <p>3.6 Position, adjust, maintain and control the traffic control equipment in line with relevant Codes of Practice and the progress of the work activity.</p>

Learning Outcomes	Assessment Criteria
The learner will:	The learner can:
	<p>3.7 Remove protection equipment and traffic control equipment in accordance with relevant codes of practice.</p> <p>3.8 Take relevant action where they identify problems with the equipment or the work site.</p> <p>3.9 Follow safe working practices for signing, lighting and guarding in accordance with relevant procedures and statutory requirements.</p>
<p>4 Know and understand how to operate safely on the water distribution network.</p>	<p>4.1 Give examples of different types of working environments on the distribution network and their safety implications.</p> <p>4.2 Give examples of health and safety specifications and safe systems of work relating to tools, equipment and the working environment.</p> <p>4.3 Describe the action they would take, and the limits of their responsibility, when tools, equipment and the working environment do not meet safety requirements.</p> <p>4.4 Outline the hazards associated with working on the distribution network.</p> <p>4.5 Describe what constitutes a hazardous location.</p> <p>4.6 Describe the health and safety specifications for entrances to and exits from hazardous locations.</p> <p>4.7 Describe the maintenance requirements for tools and equipment including national water hygiene standards for cleaning and disinfecting tools and equipment.</p>

Learning Outcomes	Assessment Criteria
<p>The learner will:</p>	<p>The learner can:</p> <p>4.8 Give examples of safe working practices and related regulatory and statutory requirements for the working environment and the implications if they are not met.</p> <p>4.9 Describe the recording procedures used when operating safely on the distribution network.</p> <p>4.10 List the hazards that may be encountered on the network.</p> <p>4.11 Give examples of materials, tools and equipment used on the distribution network, including:</p> <ul style="list-style-type: none"> (a) the hazards they may pose (b) how to use them safely. <p>4.12 Describe safe working practices and organisational requirements for safe use and storage of:</p> <ul style="list-style-type: none"> (a) personal protective equipment (b) safety clothing (c) equipment. <p>4.13 Describe safe working practices that maintain their own health and safety and that of others.</p> <p>4.14 Explain how to respond to dangerous occurrences on the distribution network, including:</p> <ul style="list-style-type: none"> (a) what constitutes a dangerous occurrence (b) the factors which contribute to dangerous occurrences on the distribution network (c) relevant procedures for dealing with dangerous occurrences.

Learning Outcomes	Assessment Criteria
<p>The learner will:</p>	<p>The learner can:</p> <p>4.15 Outline what is covered by the Codes of Practice for working in the highway, including:</p> <ul style="list-style-type: none"> (a) <i>Safety at Street Works and Road Works</i> (b) Department of Transport ‘<i>An introduction to the use of vehicle activated portable traffic signals</i>’ (c) Chapter 8 of the <i>Traffic Signs Manual</i>. <p>4.16 Explain the implications of incorrect signing, lighting, guarding and traffic control.</p> <p>4.17 List the different types of protection equipment and traffic control equipment that could be used on site.</p> <p>4.18 Give examples in the variations in signing, lighting, guarding and traffic control required for different situations, including single and dual carriageways.</p> <p>4.19 Explain the importance of using the correct sequence to set up and dismantle works.</p> <p>4.20 Describe the implications of poor maintenance of the layout and condition of protection and traffic control equipment.</p> <p>4.21 Explain the importance and purpose of personal protective equipment.</p> <p>4.22 Explain problems arising from signing, lighting and guarding the work site, including:</p> <ul style="list-style-type: none"> (a) typical and unusual problems that could arise (b) their responsibility for dealing with problems.

Learning Outcomes	Assessment Criteria
The learner will:	The learner can:
	4.23 Outline safe working practices and related statutory requirements for signing, lighting and guarding the work site.

Additional information about the Unit
Unit purpose and aim(s)
<p>This Unit allows learners working on the water distribution network to show their competence in carrying out their work safely. This includes maintaining the safety of tools, equipment, the working environment (which may include pipework, service reservoirs and pumping stations), their personal safety and the safety of others. It also covers making relevant use of risk assessments, and signing, lighting and guarding the work site. The learner must ensure they keep accurate records, to conform with health and safety specifications and safe systems of work. Safe working and hygiene practices must be followed at all times.</p>
Details of the relationship between the Unit and relevant national occupational standards (if appropriate)
EUSDC01 — Operate safely on the distribution network
Details of the relationship between the Unit and other standards or curricula (if appropriate)
N/A
Assessment requirements specified by a sector or regulatory body (if appropriate)
<p>Some terms, used in the Assessment Criteria, cover a range of situations, as follows:</p> <ol style="list-style-type: none"> 1 Hazards include: <ul style="list-style-type: none"> (a) flammable materials (b) disinfectants (c) confined spaces (d) deep excavations (e) lone working (f) slips, trips and falls (g) needle-stick injuries (h) lifting and manual handling (i) traffic 2 Hazardous locations include: <ul style="list-style-type: none"> (a) water storage sites (b) building sites (c) highways (d) commercial premises (e) residential premises 3 Relevant action taken with tools, equipment and hazardous locations that don't comply with health and safety specifications and safe working practices includes: <ul style="list-style-type: none"> (a) rectifying those which are within the learner's responsibility (b) reporting those what are outside the learner's responsibility

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

4 Dangerous occurrences include:

- (a) accidents
- (b) near misses

5 Type of carriageway includes:

- (a) single
- (b) dual
- (c) footpaths

6 Protection equipment includes:

- (a) signs
- (b) lights
- (c) guards
- (d) traffic controls

7 Traffic control equipment includes:

- (a) give and take signs
- (b) priority signs
- (c) stop/go boards
- (d) portable traffic signals

8 Personal protective equipment includes:

- (a) high visibility clothing
- (b) that required by safe working practices

Assessment (evidence) Requirements

Workplace evidence

The majority of evidence used for this Unit must come from the learner's own work activities, both in their own 'reporting base' and working on the water distribution network. As the learner's job role revolves around operational activities on the distribution network, **the evidence provided for this Unit must include evidence from their distribution control activities.**

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. The centre may use oral and/or written questioning to cover the knowledge requirements.

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, workplace records, reports or documentation (including site risk assessments produced in connection with distribution control activities, and how the learner uses them in conjunction with the circumstances s/he encounters on site).