



Australian Government

NWPNET029 Locate, identify and protect utilities

Release: 1

NWPNET029 Locate, identify and protect utilities

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to locate, identify and protect utilities.

It includes preparing to locate utility services at the worksite, locating utility assets by excavation, operating plant near underground or overhead utility assets. It also includes protecting and supporting utility assets during excavation and backfilling and initiating emergency procedures.

This unit applies to those involved in locating, constructing, repairing or installing underground utility infrastructure to prevent damage, injury, death or loss of service. Those undertaking this unit would work under appropriate supervision, performing routine tasks, in mostly familiar context ensuring minimum damage to the environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Networks

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to locate utility services at worksite

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Identify utility assets or services by communicating with relevant authorities

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| | 1.2 | Determine and mark worksite boundaries and requirements from plans, specifications and workplace instructions |
| | 1.3 | Determine type, size and likely configuration of all underground and overhead services from plans and typical or local installation practices |
| | 1.4 | Conduct risk assessment for environmental and safety factors including personal and protective equipment to ensure it is safe to commence work |
| | 1.5 | Identify yourself to your customers and determine customer needs |
| 2 | Operate pipe and cable locating equipment | |
| | 2.1 | Identify and select appropriate locating equipment |
| | 2.2 | Operate pipe and cable locating equipment according to manufacturer instructions |
| | 2.3 | Interpret false signals or interference with pipe and cable locating equipment and make appropriate adjustments |
| | 2.4 | Mark the approximate location of services on the surface of the worksite according to workplace procedures |
| | 2.5 | Conduct test excavation to visually confirm service location according to workplace procedures |
| 3 | Operate plant near underground or overhead utility assets | |
| | 3.1 | Monitor plant during work activities according to workplace procedures |
| | 3.2 | Identify potential or actual encroaches of plant on minimum clearances to assets |
| | 3.3 | Give instructions to plant operator using agreed signals |
| 4 | Protect and support utility assets during excavation and backfilling | |
| | 4.1 | Protect and support assets according to utility owner requirements to prevent damage |
| | 4.2 | Report damage to assets to utility owner according to workplace procedures |
| | 4.3 | Restore worksite using equipment, tools and materials to meet environmental and workplace procedures |

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| 5 Maintain locating equipment | 5.1 Perform daily maintenance of equipment according to manufacturer instructions |
| | 5.2 Record maintenance details according to workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPNET011 Locate, identify and protect utilities.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

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Assessment Requirements for NWPNET029 Locate, identify and protect utilities

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- applying safe work methods for locating and protecting utilities at or near a worksite
- assessing and identifying risk of potential hazards associated with each utility
- communicating with stakeholders
- contacting relevant authorities for the correct location of utilities or services
- monitoring use of equipment
- protecting and supporting utility assets during performance of work tasks and during worksite restoration
- selecting and using tools and equipment

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- communication systems for locating utilities
- plans of underground and overhead services
- effects of weather and conditions on worksite or plant
- emergency response procedures
- environmental aspects of excavation
- equipment operation, capacity and limitations
- landscape and ground structure of work area
- relevant legislation, regulations and workplace procedures
- relevant utilities and service bodies to contact for the correct location of utilities or services including Dial Before You Dig
- risk assessment and identification of potential hazards associated with each utility

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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