



Australian Government

NWPNET062 Maintain network assets using high pressure water systems

Release: 1

NWPNET062 Maintain network assets using high pressure water systems

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 maintain network assets using class A and/or B rated high pressure water systems.

It includes preparing for work, completing on-site preparation, setting up, reinstating and completing asset cleaning or clearing job.

This unit applies to those using high pressure water systems to undergo cleaning or clearing of network assets. Those undertaking this unit would work independently while performing routine tasks with a moderate level of complexity in familiar contexts.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Workplace policies and procedures must be consulted and adhered to.

No licensing, legislative or certification requirements apply to 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.

PERFORMANCE CRITERIA

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

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| 1 Prepare for work | 1.1 | Interpret and follow job requirements and complete site and work control requirements |
| | 1.2 | Identify hazards, assess risks and implement control measures |
| | 1.3 | Select, check and load consumables, correct equipment and personal protective equipment (PPE) required for job |
| 2 Complete on-site preparation | 2.1 | Confirm job scope, location and requirements with relevant personnel and stakeholders |
| | 2.2 | Read, interpret and follow job-related documentation |
| | 2.3 | Confirm required quantity and quality of water is available |
| 3 Set up asset cleaning or clearing job | 3.1 | Prepare worksite to comply with job, safety and environmental requirements |
| | 3.2 | Inspect, assemble and check asset cleaning or clearing equipment in accordance with asset cleaning or clearing procedures |
| | 3.3 | Complete pre-start checks on system, test emergency shut-off and have equipment repaired prior to starting job if not functional |
| 4 Undertake asset cleaning or clearing job | 4.1 | Start up high pressure cleaning or clearing equipment for safe operation and test emergency stop, as required |
| | 4.2 | Access network assets and place fall arrest system according to organisational procedures, if required |
| | 4.3 | Attach protection devices for hoses according to organisational procedures |
| | 4.4 | Remove obstructions and materials from the network assets and dispose of according to organisational procedures |
| | 4.5 | Monitor job, conditions, hazards and equipment and maintain agreed real-time visual communication |
| 5 Complete asset cleaning or clearing job | 5.1 | Shut down asset cleaning or clearing equipment and store according to organisational procedures, as required |

- 5.2 Reinstall assets in accordance with site requirements
- 5.3 Disassemble equipment when safe to do so
- 5.4 Clean job site and equipment and ensure appropriate disposal of all waste
- 5.5 Disassemble exclusion zones when access to area is safe
- 5.6 Maintain, store and secure equipment and materials according to workplace instructions
- 5.7 Identify and action restock requirements for spares and consumables
- 5.8 Report job completion and details of any issues arising from the task in accordance with client or organisational requirements

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 NWP National Water Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

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

Assessment Requirements for NWPNET062 Maintain network assets using high pressure water systems

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 include:

- assembling, disassembling and operating high pressure water cleaning or clearing equipment that meets the requirements of Australian Standards for high pressure water systems
- cleaning or clearing a network asset using a high pressure water cleaner with a nozzle
- identifying hazards, assessing risks and implementing control measures
- inspecting equipment for damage or wear, including the full length of hose
- operating emergency shut-off
- using a gun or lance
- using the correct personal protective equipment (PPE) required for job

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 include knowledge of:

- basic principles of high pressure water jetting equipment
- communication systems used between operators, including hand signals
- correct methods of starting up, shutting down, operating and controlling asset cleaning or clearing equipment and its component items by type and application
- environmental protection and safety considerations for high pressure water cleaning or clearing operation
- equipment variables, including:
 - hose type, size and restraints
 - nozzle type
 - pressure and flow required
 - unit types, including trucks and trailers
- hazards, risks and controls specific to high pressure water cleaning or clearing
- importance of monitoring and controlling job conditions
- operational parameters and limits of equipment
- principles of operation of high pressure water jetting equipment and its component items, including:

- anti-withdrawal devices
- easement reel
- guns or lances
- hose restraints
- hoses
- motive power – vehicle output power, gearing and line feed speeds
- nozzles
- operating emergency stop
- positive displacement pump
- starter bars
- procedures for incident responses
- relevant standards
- relevant work health and safety requirements
- routine cleaning and servicing requirements for asset cleaning or clearing equipment
- techniques and methodology of asset cleaning or clearing for network assets.

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 suitable workplace operational situations. Where this is not appropriate, assessment must occur in suitable simulated workplace operational situations reflecting actual 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, facilities, equipment and PPE currently used in industry
- applicable relevant documentation, including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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