



Australian Government

NWPIWS009 Monitor and control drainage operations

Release: 1

NWPIWS009 Monitor and control drainage operations

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 monitor and control drainage operations.

It includes inspecting drainage systems, monitoring flows and controlling and operating processes. It also includes identifying faults, gathering data, interpreting technical information and operating technical equipment.

This unit applies to those working as field staff with a responsibility for inspecting and reporting faults in drainage systems and for operating, integrating and regulating drainage system processes. Those undertaking this unit would work under appropriate supervision, while performing routine tasks ensuring minimum damage to the environment, in a familiar context.

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

Pre-requisite Unit

Not applicable.

Competency Field

Irrigation Water Supply

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Inspect drainage systems

PERFORMANCE CRITERIA

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

1.1 Schedule and conduct routine inspections of drainage systems

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| | 1.2 | Undertake risk assessment at worksite according to workplace procedures |
| | 1.3 | Monitor faults and organise remedial action |
| | 1.4 | Collect and report data on drainage system performance and usage according to workplace procedures |
| 2 | Monitor flows | |
| | 2.1 | Monitor flows entering drains |
| | 2.2 | Monitor flows in drains to ensure correct drain operation |
| 3 | Control and operate processes | |
| | 3.1 | Control flows to maintain parameters of operation |
| | 3.2 | Identify, address and report problems and operational conditions of the drainage network to relevant personnel |
| | 3.3 | Integrate processes to improve drainage network performance according to workplace procedures |
| | 3.4 | Compile and document process records |

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 NWPIRR031 Monitor and control drainage operations.

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 NWPIWS009 Monitor and control drainage operations

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:

- collecting performance and usage data
- completing and compiling required documentation
- controlling and integrating processes
- identifying and addressing problems
- inspecting and adjusting flow regulating systems
- interpreting plans policies and procedures
- monitoring discharge flows
- monitoring faults
- monitoring, operating and controlling drainage systems
- scheduling and conducting inspections

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:

- effects of weather and conditions on operation of drainage systems
- environmental aspects of drainage systems
- equipment operation, capacity and limitations
- gravity systems
- inspection of drainage systems
- policies and standard operating procedures
- relevant legislation, regulations and workplace procedures
- relevant utilities and service bodies
- risk factors and potential hazards involved in drainage systems
- system layout and processes

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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