



Australian Government

NWPIRR031 Monitor and control drainage operations

Release: 1

NWPIRR031 Monitor and control drainage operations

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP332B Monitor and control drainage operations. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Element 2 reworded and all PC revised • Elements 3 and 4 merged • PC 1.3, 1.4 and 1.5 removed • One new PC added to Element 1

Application

This unit describes the skills required to monitor, operate and control drainage systems. The ability to identify faults, gather data, interpret technical information and operate technical equipment is essential to performance.

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.

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

Those undertaking this unit would work under indirect supervision, while performing routine tasks ensuring minimum damage to the environment, in a familiar context.

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

Competency Field

Irrigation

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Inspect drainage systems	1.1 Schedule and conduct routine inspections of drainage systems. 1.2 Monitor faults and take remedial action. 1.3 Collect and report data on drainage system performance and usage.
2. Monitor flows	2.1 Monitor flows entering drains. 2.2 Monitor flows in drains to ensure correct drain operation. 2.3 Complete remedial action.
3. Control and operate processes	3.1 Control processes to maintain parameters of operation. 3.2 Identify, address and report problems and operational conditions of the drainage network. 3.3 Integrate processes to improve drainage network performance. 3.4 Compile process records.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning NA					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to NWP332B 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 NWPIRR031 Monitor and control drainage operations

Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages. • Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- interpreting plans, topographic drawings, charts, service diagrams, service search diagrams, instructions, policies and procedures
- monitoring, operating and controlling drainage systems
- monitoring fault reports
- scheduling and conducting inspections
- collecting performance and usage data
- inspecting and adjusting flow regulating systems
- monitoring discharge flows
- controlling and integrating processes
- identifying and addressing problems
- completing required documentation

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- inspection of drainage systems
- coordination processes
- system layout and processes
- environmental aspects of drainage systems
- policies and standard operating procedures

- relevant utilities and service bodies
- risk factors and potential hazards involved in drainage systems
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of drainage systems
- pipes and fittings
- pumping and valving systems
- gravity systems
- control systems

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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