



Australian Government

NWPIRR034 Coordinate and monitor surface water systems

Release: 1

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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 NWP415A Coordinate and monitor surface water systems. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice

Application

This unit describes the skills required to coordinate and monitor the operation of surface water systems, ensuring that Surface Water Management Plan (SWMP) performance measures are met, environmental issues are addressed and a source of supply is maintained.

This unit applies to those working as field and operational staff with a specific responsibility for ensuring that the operation of surface water systems complies with the requirements of the organisation's SWMP and with relevant organisational and statutory requirements.

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 independently or in a team, and may be responsible for the coordination of an operational team. They would performing complex tasks ensuring minimum damage to the environment, in a familiar context. However, the level of responsibility may vary according to the size, scope, location, and technical complexity of process.

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. Confirm SWMP performance measures	1.1 Identify water flow requirements in surface water sources. 1.2 Identify water quality and quantity requirements, including release rates. 1.3 Identify environmental factors that may impact on water flows and quality. 1.4 Identify performance measures for the resource and operations. 1.5 Access historic information and consult stakeholders as required.
2. Monitor the performance of assets	2.1 Carry out monitoring and testing programs. 2.2 Select, fit and use personal protective equipment. 2.3 Monitor assets to ensure performance meets specifications in the SWMP. 2.4 Schedule maintenance programs to meet current and potential problems.
3. Monitor and coordinate processes	3.1 Test and monitor water usage and quality according to the SWMP. 3.2 Coordinate processes to meet SWMP requirements and targets. 3.3 Take action to optimise system performance.
4. Report the outcomes of testing and monitoring	4.1 Analyse, record and report coordination and monitoring data. 4.2 Identify and report current or potential problems.

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 NWP415A Coordinate and monitor surface water systems.

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 NWPIRR034 Coordinate and monitor surface water systems

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 and applying legislation and policies
- coordinating measuring and testing activities
- consulting with customers and stakeholders
- conducting site inspections
- assessing environmental impact
- coordinating and monitoring the operation of surface water systems
- identifying water flow, quality and quantity requirements and any environmental factors that may affect these
- identifying surface water system performance measures from the SWMP
- accessing historic information
- conducting or supervising asset monitoring and testing programs
- conducting or supervising testing and monitoring of water usage and water quality
- coordinating processes to meet targets and optimise system performance
- analysing data, completing records and producing reports

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.

- relevant legislation
- relevant enterprise policies and procedures

- surface water system
- customer expectations and requirements
- climatic and weather characteristics and impacts
- hydraulic analysis

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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