



Australian Government

NWPIRR063 Develop and review surface water management plan

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 NWP517B Develop and review surface water management plan. • 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 develop and review a surface water management plan to ensure environmental considerations are met and source of supply is maintained.

This unit applies to those working as managers in water organisations with responsibility for the management of surface water resources.

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.

Those undertaking this unit would work autonomously, managing staff, while performing sophisticated tasks in a range of familiar contexts.

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. Plan and prepare for management of surface water flows and quality	1.1 Identify and interpret surface water flow requirements. 1.2 Identify and interpret water flow, quality and quantity requirements, including release. 1.3 Identify and interpret historic source water flow and system capacity information. 1.4 Identify and interpret environmental flows that impact on water flows and quality. 1.5 Identify and interpret environmental factors that impact on surface water. 1.6 Identify, interpret and review the current status of resource and operational protocols.
2. Develop the surface water management plan	2.1 Identify and interpret surface water management requirements. 2.2 Identify, interpret and validate stakeholder issues that impact on surface water. 2.3 Develop a surface water management plan.
3. Review the surface water management plan	3.1 Analyse and report deviations from planned performance measures. 3.2 Review objectives of the management and implementation plans. 3.3 Review parameters for water usage and quality through monitoring and testing programs. 3.4 Make recommendations for changes to plan objectives and procedures, and usage and quality parameters. 3.5 Provide advice and guidance to water users and stakeholders.

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					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 NWP517B Develop and review surface water management plan.

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 NWPIRR063 Develop and review surface water management plan

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.

- developing and reviewing a surface water management plan to ensure environmental considerations are met and source of supply is maintained
- reading and interpreting complex numerical data and performing complex calculations to track and manage performance of surface water
- gathering, interpreting and synthesising information, including:
 - historical data
 - current legislation and standards
 - stakeholder views
 - monitoring and test results
- developing effective surface water management plans that address the water organisation's objectives and requirements
- using data from testing and other monitoring arrangements to track the performance of the surface water management plan and inform the review of the plan
- preparing reports and recommendations for changes to the objectives of the management plan and its implementation

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, policies and procedures
- risk management principles

- 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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