



Australian Government

NWPIRR003 Inspect and operate 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 NWP322B Inspect and operate surface water systems. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • PC 1.3 removed

Application

This unit describes the skills required to inspect and coordinate the operation of surface water systems and to measure and report on surface water usage and system performance. The ability to collect data, monitor and adjust regulatory systems, coordinate system performance and produce technical reports are essential to performance.

This unit applies to those working as field operators with a specific responsibility for inspecting and operating surface water systems and for ensuring that flows are regulated according to organisational specifications and system demands.

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 and report on surface water system performance and usage	1.1 Schedule and complete routine inspections of surface supply areas. 1.2 Collect and record data on system capacity and flow. 1.3 Select, fit and use required safety equipment, including personal protective equipment.
2. Monitor inflows, outflows and releases	2.1 Inspect flow regulating systems and make adjustments to meet demand requirements. 2.2 Monitor flows and coordinate diversions or extractions to control usage. 2.3 Read meters and record volumes.
3. Operate and coordinate system performance	3.1 Address and record process faults and operational conditions. 3.2 Optimise process performance.
4. Complete documentation	4.1 Record inspections results. 4.2 Report data from inspection results.

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 NWP322B Inspect and operate 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 NWPIRR003 Inspect and operate 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.

- using safety equipment and personal protective equipment
- calculating flow and capacity
- coordinating surveillance
- interpreting plans
- identifying control system faults
- inspecting and coordinating the operation of surface water systems
- inspecting surface supply areas
- collecting and recording data
- collecting samples
- inspecting and adjusting flow regulating systems
- monitoring flows
- coordinating diversions and extractions
- reading meters
- identifying and reporting faults
- integrating processes
- completing relevant 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.

- operations of surface water systems
- impacts of the principles of hydraulics on the surface water system
- methods of measuring and calculating flow
- system capacity and system faults
- adjusting flow regulating systems
- methods of monitoring flows
- customer requirements
- data collection requirements
- reporting 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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