



Australian Government

NWPIRR032 Monitor and control rural water distribution operations

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 NWP333B Monitor and control rural water distribution operations. • 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 monitor, control and coordinate rural water flow, scheduling and delivery and to report on rural water distribution, including irrigation, domestic and stock supply 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 monitoring and operating rural water distribution systems.

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. Monitor water delivery system	1.1 Perform routine inspections of channel flow rates, regulations and delivery according to demand and organisational and statutory requirements. 1.2 Gather and record system performance data. 1.3 Identify and correct system faults according to plans and service standards. 1.4 Select, fit and use required safety equipment, including personal protective equipment.
2. Control processes	2.1 Determine and apply system adjustments required to meet demands. 2.2 Initiate and coordinate system adjustments required for delivery or channel flow rates. 2.3 Integrate processes to improve the delivery network performance.
3. Analyse data and compile reports	3.1 Conduct analysis of actual performance against planned system performance using system data and records. 3.2 Compile reports from system performance data.

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 NA					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 NWP333B Monitor and control rural water distribution 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 NWPIRR032 Monitor and control rural water distribution 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.

- solving operational problems
- calculating water flows
- laying and joining pipes
- installing associated fittings and components
- interpreting and following plans, instructions and standard operating procedures
- using safety equipment and personal protective equipment
- using tools and machinery
- identifying hazards
- monitoring, controlling and coordinating rural water flow, scheduling and delivery
- conducting system inspections
- gathering and recording system performance data
- identifying and correcting system faults
- adjusting system to meet demand
- integrating processes
- analysing system performance
- 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 rural distribution systems
- coordination processes
- system layout and processes
- environmental aspects of rural distribution systems
- policies and standard operating procedures
- relevant utilities and service bodies
- risk factors and potential hazards
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of rural water distribution systems
- pipes and fittings
- pumping and valving systems
- gravity and 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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