



Australian Government

NWPIRR071 Implement and coordinate irrigation delivery systems

Release: 1

NWPIRR071 Implement and coordinate irrigation delivery systems

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 NWP530B Implement and manage the operation and maintenance of irrigation delivery systems. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Unit title changed to better reflect unit outcomes. • PC 2.3 revised

Application

This unit describes the skills required to implement and manage the operation and maintenance of irrigation delivery systems, including system performance analysis, customer liaison and planning.

This unit applies to those working as managers in water organisations with responsibility for the implementation of irrigation system management plans.

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. Implement the irrigation system management plan	1.1 Confirm performance measures for the irrigation system management plan. 1.2 Access and interpret historic system information to inform the implementation process. 1.3 Inform stakeholders about the system management plan. 1.4 Develop management plan components and activities for implementation. 1.5 Develop the implementation plan. 1.6 Determine responsibilities and timelines for the implementation activities.
2. Monitor and evaluate the operation and maintenance of the irrigation system	2.1 Plan, perform and report on monitoring and testing procedures to identify deviations of planned water system quantity, quality, release and flow rates. 2.2 Evaluate delivery of water to customers (timeliness, volume and flow rates) and identify, investigate and report deviations from agreed service. 2.3 Evaluate maintenance budgets, activity programs and output target measures. 2.4 Identify, investigate and report deviations from targets. 2.5 Identify and document links between operational problems and maintenance activities.
3. Report on the implementation of the irrigation system management plan	3.1 Identify, investigate and report deviations of planned water usage, quality and management plan procedures. 3.2 Review objectives of the management and implementation plans. 3.3 Make recommendations for changes to plan objectives and operational and maintenance procedures.

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 NWP530B Implement and manage the operation and maintenance of irrigation delivery systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Assessment Requirements for NWPIRR071 Implement and coordinate irrigation delivery 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.

- performing the activities associated with the implementation and management of the operation and maintenance of irrigation delivery systems
- calculating timelines for implementation activities
- interpreting numerical data to control and measure delivery of water to customers
- applying ratios to evaluate maintenance budgets, activity programs and output targets
- gathering, interpreting and synthesising information to underpin the implementation of the irrigation management plan, including:
 - historical data
 - current legislation and standards
 - stakeholder views
 - the results of irrigation system testing and monitoring
- planning and implementing testing processes and programs
- monitoring and evaluating the outcomes of the irrigation system management plan
- providing advice and communicating with stakeholders and users
- preparing reports and recommendations for future action

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

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

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>