



Australian Government

NWPIWS013 Coordinate and monitor pumped rural irrigation systems

Release: 1

NWPIWS013 Coordinate and monitor pumped rural irrigation systems

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to coordinate and monitor pumped rural irrigation systems.

It includes ensuring the irrigation plan's 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 the operation of pumped rural irrigation systems complies with the requirements of the organisation's irrigation plan and with relevant organisational and statutory requirements.

Those undertaking this unit would work autonomously, usually with supervisory responsibilities, while performing complex tasks in a range of contexts.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Irrigation Water Supply

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | | |
|---|------------|--|
| 1 Confirm irrigation plan performance measures | 1.1 | Identify water flow requirements in water sources |
| | 1.2 | Identify water quality and quantity requirements, including release rates |
| | 1.3 | Identify environmental factors impacting water flows and quality |
| | 1.4 | Identify performance measures for the water resource and operation of the system |
| | 1.5 | Identify and communicate with stakeholders |
| | 1.6 | Access monitoring data and consult stakeholders |
| 2 Monitor the performance of assets | 2.1 | Conduct monitoring and testing programs according to irrigation plan |
| | 2.2 | Select, fit and use personal protective equipment |
| | 2.3 | Monitor assets to ensure performance meets specifications in the irrigation plan |
| | 2.4 | Schedule maintenance programs to ensure irrigation plan performance |
| 3 Monitor, coordinate and report processes | 3.1 | Test and monitor water usage and quality according to the irrigation plan |
| | 3.2 | Coordinate processes to meet the irrigation plan's requirements and targets |
| | 3.3 | Identify and implement actions to optimise system performance |
| | 3.4 | Analyse, record and report coordination and monitoring data to relevant stakeholders and personnel |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work

environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit supersedes and is equivalent to NWPIRR034 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>