



Australian Government

NWPIWS012 Monitor and schedule water deliveries

Release: 1

NWPIWS012 Monitor and schedule water deliveries

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 monitor and schedule water deliveries.

It includes scheduling water deliveries for irrigation and domestic or supply systems, including monitoring flows, analysing data, coordinating hydraulic processes and compiling operational reports.

This unit applies to those working as field staff and operators with a specific responsibility for ensuring water deliveries meet customer requirements. Those undertaking this unit would work under appropriate supervision, while performing routine tasks and ensuring minimum damage to the environment, in a familiar.

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.

1 Schedule water deliveries

PERFORMANCE CRITERIA

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

1.1 Identify and record customer water orders according to workplace procedures

	1.2	Analyse water orders to determine water delivery and flow rate requirements
	1.3	Schedule water deliveries to meet flow rate requirements and organisational standards for channel balance and capacity restraints
2 Monitor water delivery	2.1	Monitor channel flow rate, regulation and delivery according to customer requirements
	2.2	Maintain delivery performance records according to workplace procedures
	2.3	Analyse system performance using system data and records to determine actual and planned performance
3 Coordinate and control water delivery	3.1	Calculate system adjustments according to demand and organisational requirements
	3.2	Coordinate flow regulation, channel levels, security of flow devices and settings according to demand and organisational requirements
4 Compile records of water delivery	4.1	Compile reports from systems performance data
	4.2	Maintain appropriate measurement and delivery records according to workplace procedures

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 replaces and is equivalent to NWPIRR042 Monitor and schedule water deliveries.

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 NWPIWS012 Monitor and schedule water deliveries

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- adjusting system according to demand
- analysing volumes and flow rates required for water deliveries
- completing relevant documentation
- coordinating flow regulating devices
- identifying and responding to operational problems
- identifying control system faults
- monitoring and regulating system performance
- monitoring channel flow
- performing work related calculations
- preparing schedules for water deliveries for customer orders for irrigation and domestic stock supply systems
- producing reports

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- control systems
- coordination processes
- effects of weather and conditions on operation of site plant
- environmental aspects of irrigation and/or stock and domestic supply system
- equipment operation, capacity and limitations
- flow measurement procedures
- gravity systems
- impact of the principles of hydraulics on the operation of flows
- policies and standard operating procedures
- principles of scheduling
- relevant legislation, regulations and workplace procedures
- system hydraulics

- system layout and operations
- water flow calculations

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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