



Australian Government

NWPIWS002 Operate regulating devices in rural irrigation systems

Release: 1

NWPIWS002 Operate regulating devices in 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 operate regulating devices in rural irrigation systems.

It includes monitoring flows in irrigation systems, recording and reporting system adjustments and responding to contingencies.

This unit applies to those working as field or operational staff with responsibility for using flow control and metering devices according to workplace procedures. Those undertaking this unit would work in a team or under appropriate supervision using own familiar resources as required, while performing routine tasks in range of familiar 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.

1 Monitor and regulate required flows in

PERFORMANCE CRITERIA

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

1.1 Access and apply operating requirements for flows in

irrigation systems	irrigation systems
	1.2 Use and secure equipment to assist operational activities according to workplace procedures 1.3 Monitor, measure and record flows at designated locations according to work schedule 1.4 Identify potential operational problems and provide solutions 1.5 Adjust and maintain flow regulation and control mechanisms to increase and decrease flow according to workplace procedures
2 Record and report system adjustments	2.1 Produce trend information relating to flow adjustments 2.2 Collect, record and report information on flows and abnormalities
3 Respond to contingencies	3.1 Identify and assess potential risks and contingencies in the operation of regulating devices 3.2 Respond to potential and actual risks and contingencies 3.3 Inform relevant personnel of potential risks 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 NWPIRR002 Operate basic flow control and regulating devices in irrigation 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 NWPIWS002 Operate regulating devices in rural irrigation systems

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Performance Evidence

- adjusting and maintaining flow system control mechanisms
- completing records and reports
- collecting and reporting system performance information
- identifying and reporting operational problems
- identifying flow requirements
- interpreting data
- producing information
- securing flow regulation devices
- using equipment relevant for controlling and regulating water flow for irrigation

Knowledge Evidence

- effects of weather conditions on system operation and worksite
- equipment operation, capacity and limitations
- methods for data collection and reporting
- irrigation system layout
- principles of hydraulics impacting on the operation of flows
- relevant legislation, regulations and workplace procedures
- relevant lock-out procedures for mechanical and electrical installations
- risk factors and potential hazards
- system flow control mechanisms

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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