



Australian Government

Assessment Requirements for NWPIWS014

Coordinate and monitor the operation of irrigation delivery systems

Release: 1

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Modification History

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

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:

- analysing and reporting data
- assessing environmental impact
- checking flows
- confirming performance requirements for an irrigation system management plan
- evaluating performance of water deliveries and investigating and reporting deviations from agreed service levels
- evaluating performance targets
- identifying and reporting problems
- identifying customer requirements and environmental factors that impact on the irrigation system
- implementing, monitoring and testing programs and investigating and reporting deviations from planned parameters
- interpreting historic system information and consulting stakeholders
- making recommendations for system performance or customer service improvements

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 and include knowledge of:

- coordination processes
- customer expectations and requirements
- environmental and topography influence on the operation area
- evaluation strategies for effectiveness of performance
- impact of the principles of hydraulics on the operation of flows
- irrigation SCADA systems
- maintenance contingencies
- operational contingencies
- operational risk factors
- principles of scheduling for supply

- relevant legislation, policies and procedures
- requirements for monitoring and testing programs
- system equipment operation, capacity and limitations
- system layout and operations
- water flow calculations
- workplace documentation including requirements for an operational risk management plan

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.

Links

Companion Volume implementation guides are found in VETNet -

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