



Australian Government

NWPIWS003 Inspect and operate water diversion systems

Release: 1

NWPIWS003 Inspect and operate water diversion 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 inspect and operate water diversion systems.

It includes coordinating the operation of surface water systems, measuring and reporting on surface water usage and system performance. It also includes collecting data, monitoring and adjusting regulatory systems, coordinating system performance and producing technical reports.

This unit applies to those working as field operators with a specific responsibility for inspecting and operating surface water systems and for ensuring that flows are regulated according to organisational specifications and system demands. Those undertaking this unit would work under appropriate supervision, while performing routine tasks ensuring minimum damage to the environment, in a familiar context.

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 Inspect and report on

PERFORMANCE CRITERIA

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

1.1 Schedule and complete routine inspections of surface

surface water system performance and usage		supply areas according to licensing requirements	
2 Monitor inflows, outflows and releases	1.2	Collect and record data on system capacity and flow to ensure system operational parameters are being met	
	1.3	Use appropriate safety equipment, including personal protective equipment according to workplace procedures	
	2.1	Inspect flow regulating structures and adjust to meet demand requirements	
	2.2	Monitor flows and coordinate diversions or extractions to control usage requirements, according to demand or local management rules	
	2.3	Read meters, record volumes and enter data into database according to workplace procedures	
3 Operate and coordinate system performance	3.1	Locate and record process faults and operational conditions	
	3.2	Adjust system parameters to optimise process performance	
	3.3	Undertake routine maintenance according to product specifications and workplace procedures	
4 Complete documentation	4.1	Record inspection results according to workplace procedures	
	4.2	Report data from inspection results to relevant 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 replaces and is equivalent to NWPIRR003 Inspect and operate 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>

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Assessment Requirements for NWPIWS003 Inspect and operate water diversion systems

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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:

- calculating flow and system capacity
- collecting, recording and reporting data
- completing relevant documentation
- monitoring and identifying delivery system faults and reporting to relevant personnel
- inspecting and adjusting flow regulating systems
- inspecting and coordinating the operation of surface water systems
- inspecting surface supply areas
- monitoring flows
- reading meters
- using safety equipment and personal protective equipment

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 includes knowledge of:

- adjusting flow regulating systems
- customer water order requirements
- data collection requirements
- methods of measuring and calculating flow
- methods of monitoring flows
- operations of surface water systems
- principles of hydraulics on the surface water system
- relevant legislation, regulations and workplace procedures
- reporting systems
- system capacity and system faults

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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