



Australian Government

NWPCAD008 Monitor and control dam operations

Release: 1

NWPCAD008 Monitor and control dam operations

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 control dam operations.

It includes preparing for and implementing dam operation plans and inspecting and testing dam emergency backup equipment.

This unit applies to those working as field and operational staff with a specific responsibility for the operation of dams. Those undertaking this unit would work under appropriate supervision while performing routine tasks in a limited 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

Catchment and Dams

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for dam operation

PERFORMANCE CRITERIA

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

1.1 Identify and apply relevant workplace procedures, guidelines and regulatory requirements for dam operation

1.2 Schedule and prioritise operational activities and obtain

		relevant approval
	1.3	Notify relevant stakeholders of operational plans
2 Implement dam operations	2.1	Follow dam operation plan and procedures
	2.2	Inspect, operate and test isolating and regulating equipment
	2.3	Test and record dam standby and emergency backup equipment
3 Compile and process operation reports	3.1	Collect operational data from measurement instruments, inspections and relevant personnel
	3.2	Process, evaluate, validate, record and store operational data
	3.3	Record and report structural, material and/or equipment problems and recommend remedial action 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 NWPSOU022 Monitor and control dam operations.

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 NWPCAD008 Monitor and control dam operations

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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:

- collecting and analysing operational information
- conducting inspections
- identifying safety hazards
- interpreting plans, drawings, instructions, standard operating procedures, policies and standards
- interpreting technical documentation
- operating dam's equipment
- preparing required reports
- scheduling and implementing operational activities
- using equipment, tools, machinery 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:

- control systems
- dam access issues
- dam operation and maintenance procedures
- dam safety emergency operations and equipment
- dam security issues
- effects of weather and conditions on assets
- environmental aspects of operation
- equipment operation
- lock out procedures for mechanical and electrical installations
- operational risks to dams
- principles of hydraulics
- relevant legislation, regulations and workplace procedures
- stakeholder communication
- system layout

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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