



Australian Government

NWPCAD012 Route floods through storages

Release: 1

NWPCAD012 Route floods through storages

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 route floods through storages.

It includes managing and conducting surveillance of catchment run-off through dams and other water storage assets, operating flow control infrastructure and ancillary equipment for dam/storage operations and flood routing.

This unit applies to those working as field and operational staff with a specific responsibility for the operation of dams and other water storage assets. Those undertaking this unit would work under appropriate supervision, while performing routine tasks in a familiar context, ensuring minimum damage to the environment.

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 Monitor flow and flood routing

PERFORMANCE CRITERIA

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

1.1 Monitor catchment behaviour during normal and flood conditions according to workplace procedures

		1.2	Determine outflows and inflows using standard flow rate calculations
		1.3	Determine flow control settings based on flow rate calculations and rating tables
2	Prepare for dam or storage operation	2.1	Conduct inspections of dams and relevant assets during floods
		2.2	Develop a hydrograph template for each new event according to workplace procedures
		2.3	Conduct risk assessment and identify hazards
3	Implement dam or water storage operation plans	3.1	Apply operation plans according to workplace procedures
		3.2	Provide flood warnings according to workplace procedures
		3.3	Inspect and test plant and equipment
		3.4	Test, assess and document safety mechanisms
4	Regulate flows	4.1	Plot flood data on hydrograph template according to workplace procedures
		4.2	Regulate flow control mechanisms to maintain safety of asset and required system supply and flood routing
		4.3	Produce data relating to flood performance and report 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 NWPSOU027 Route floods through storages.

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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