



Australian Government

Assessment Requirements for NWPCAD012 Route floods through storages

Release: 1

Assessment Requirements for 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.

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 rates including:
 - inflow
 - outflow
 - rate of change of storage volume
- collecting and analysing data and technical information
- conducting inspections
- identifying and investigating operational problems
- identifying hazards and conducting a risk assessment
- interpreting and plotting hydrographs
- interpreting plans, drawings, instructions, standard operating procedures, policies and standards
- managing and conducting surveillance of catchment run-off through dams and other water storage assets
- operating controls and ancillary equipment
- operating flow control infrastructure and ancillary equipment
- preparing required reports
- using equipment and instruments
- 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:

- communication systems relating to data acquisition and flood warnings
- control systems
- dam and storage operation principles
- effects of water and catchment conditions on flow expectations
- effects of weather and conditions on dams and storages

- environmental and social impacts of flood operations
- equipment operation
- hazardous materials handling
- impacts of errors in site measurements on flow calculations
- impact of floods on physical properties of infrastructure
- interrogation of catchment monitoring equipment
- operation of flood gates, valves or other plant
- organisational and statutory requirements
- principles of dam surveillance
- principles of hydraulics through dams
- properties of stored water and energy, wave action and standing waves
- relevant legislation, regulations and workplace procedures
- relevant utilities and service bodies
- risk management techniques
- system hydraulics
- system layout
- water flow measurement

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>

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