



Australian Government

Assessment Requirements for NWPCAD009 Monitor and implement dam maintenance

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 processing data
- collecting and evaluating technical information
- conducting inspections
- coordinating maintenance activities
- identifying and correcting maintenance problems
- identifying security and access maintenance issues
- inspecting and operating relevant equipment and instruments
- interpreting plans, drawings, instructions, workplace procedures, policies and standards
- interpreting technical documentation
- monitoring and implementing dam maintenance
- performing or coordinating maintenance on at least one of the following types of dams and associated equipment:
 - concrete
 - embankment
- preparing required reports
- proposing and justifying maintenance activities
- using relevant tools and machinery
- using safety, rescue 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:

- concrete structure, strengths and deterioration
- control systems
- dam construction procedures
- dam design principles
- dam failure and safety mechanisms

- dam maintenance principles and practices
- effects of weather and conditions on assets
- environmental aspects of maintenance
- equipment operation including:
 - flow control devices
 - lifting equipment
- hazardous materials handling
- historic dam information
- lock out procedures for mechanical and electrical installations
- maintenance procedures
- materials science
- principles of hydraulics
- principles of soil mechanics
- relevant legislation, regulations and workplace procedures
- relevant utilities and service bodies
- risk factors and potential hazards of maintenance of dam assets
- 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.

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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