



Australian Government

NWPSOU026 Implement dam safety plans

Release: 1

NWPSOU026 Implement dam safety plans

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP511B Manage large dam safety surveillance. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Unit title changed to better reflect unit outcomes • PC 1.4 removed

Application

This unit describes the skills required to plan, schedule, implement and report on dam safety surveillance.

This unit applies to those working as staff with a specific responsibility for managing the safety surveillance of large dams.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would work autonomously, with management responsibilities, while performing complex tasks in a range of familiar contexts.

No licensing, legislative or certification requirements apply to unit at the time of publication.

Competency Field

Source

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the	Performance criteria describe the performance needed to demonstrate

essential outcomes	achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Plan and prepare for dam safety surveillance	1.1 Access and apply relevant legislation and documentation. 1.2 Implement safety surveillance policies, plans and procedures. 1.3 Access and interpret historical and design information. 1.4 Assess and document dam behaviour and potential failure modes. 1.5 Determine instrumentation requirements and data collection methods.
2. Implement dam safety surveillance plans	2.1 Inform stakeholders of policies and plans. 2.2 Develop inspection programs and implement inspection and monitoring procedures. 2.3 Communicate procedures for the collection and recording of information to field staff. 2.4 Collate, process, validate, record and store data from instruments and personnel. 2.5 Analyse data and determine, record and evaluate structural, material and/or behavioural problems.
3. Complete safety surveillance reports	3.1 Prepare and distribute reports to meet dam owner, stakeholder and regulatory requirements. 3.2 Communicate consequences of failure to dam owners and other stakeholders. 3.3 Include recommendations for remedial action. 3.4 Undertake cost estimates and work schedules according to enterprise requirements. 3.5 Assess the timeliness of all stages of communication and reporting.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning NA					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

This unit supersedes and is equivalent to NWP511B Manage large dam safety surveillance.

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 NWPSOU026 Implement dam safety plans

Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages. • Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- analysing and processing data
- inspecting and operating instruments
- planning, scheduling, implementing and reporting on dam safety surveillance
- planning and preparing for dam safety surveillance
- implementing dam safety surveillance plans
- completing safety surveillance reports

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- properties of stored water
- dam design principles
- materials science
- communication systems
- relevant utilities
- principles of hydraulics
- principles of soil mechanics
- concrete structure
- strengths and deterioration
- construction procedure

- safe dam operating procedures
- principles of dam surveillance
- risk management techniques
- maintenance practices

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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