



Australian Government

NWPSOU029 Conduct and report dam safety instrumentation monitoring

Release: 1

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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 NWP326 Conduct and report dam safety instrumentation monitoring. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice

Application

This unit describes the skills required to plan, conduct and report dam safety instrumentation monitoring. This requires implementing and reporting on the monitoring of basic instrumentation installed in dams to provide assurance of their ongoing safety.

This unit applies to those working as field and operational staff with responsibility for monitoring the safety of a dam and reporting faults or trends.

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 under indirect supervision, while performing routine tasks in a limited 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	Performance criteria describe the performance needed to demonstrate

the 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 monitoring	1.1 Identify organisational procedures and guidelines for dam safety monitoring. 1.2 Identify and apply operational procedures determining the techniques, methods and equipment used for dam safety monitoring. 1.3 Organise work activities according to workplace requirements and data collection equipment and methods.
2. Conduct dam safety monitoring	2.1 Implement dam safety monitoring procedures and practices including unusual events. 2.2 Ensure equipment is functioning and fit for purpose. 2.3 Record dam instrumentation readings. 2.4 Recognise and report any monitoring data that may indicate faults or changes outside the expected range.
3. Report on dam safety monitoring	3.1 Add newly recorded information on dam behaviour to historical monitoring information. 3.2 Prepare and submit monitoring instrumentation data. 3.3 Report deviations outside approved limits including potential causes and make recommendations for follow up action.

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 NWP326 Conduct and report dam safety instrumentation monitoring.

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 NWPSOU029 Conduct and report dam safety instrumentation monitoring

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.

- following instructions, operating procedures, policies and standards for dam safety monitoring and instrumentation
- collecting and processing data
- reading and interpreting plans, drawings and charts
- recording and reporting monitoring and safety information
- interpreting a range of workplace documents
- using mathematical calculations to collect and process data on dam safety
- producing dam instrumentation monitoring reports
- inspecting and operating monitoring equipment and instruments
- reporting deviations and faults in equipment and data
- preparing monitoring activity
- setting up relevant instrumentation
- identifying faults, changes and failure indicators
- reporting on dam safety monitoring outcomes

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 and/or the AQF level of the qualification being undertaken.

- principles of dam design and construction

- causes of dam failures and incidents
- impact of unusual events on dam safety
- types of instrumentation and their application
- requirements for installation of instruments and instrument failure
- purpose of monitoring and instrumentation used
- instructions for the operation of monitoring equipment
- dam safety performance indicators
- WHS procedures related to dam monitoring and working in confined spaces
- dam faults and changes indicated by monitoring and instrumentation
- organisational and statutory requirements related to monitoring and reporting dam safety

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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