



Australian Government

NWPSOU005 Develop and manage a dam safety inspection plan

Release: 1

NWPSOU005 Develop and manage a dam safety inspection plan

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 develop and manage a dam safety inspection plan.

It includes developing operational procedures, reviewing status of inspection plans, consulting with personnel and stakeholders, developing inspection checklists and gathering historical dam construction maintenance information. It also includes adhering to relevant legislation, industry standards and workplace procedures.

This unit applies to those working as leaders with responsibility for developing and reviewing of dam safety and monitoring. Those undertaking this unit would work autonomously, leading staff, while performing sophisticated tasks in a range of familiar contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

Source

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for dam safety inspections

PERFORMANCE CRITERIA

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

1.1 Identify, interpret and assess historical dam construction and maintenance information and evaluate as input to

- the planning process
- 1.2** Identify and analyse legislation, workplace procedures, environmental requirements and operational procedures and requirements impacting dam safety inspection planning
 - 1.3** Identify, interpret and assess information relevant for dam safety inspection planning
 - 1.4** Identify, interpret and review the dam safety inspection plan
- 2 Develop dam safety inspection plan**
- 2.1** Identify, interpret and shortlist all factors to be used in the dam safety inspection plan
 - 2.2** Identify, interpret and validate stakeholder requirements, legislation and industry standards impacting the dam safety inspection plan
 - 2.3** Identify and develop operational procedures and inspection checklists used in conjunction with the dam safety inspection plan
 - 2.4** Develop and document a plan for managing dam safety inspections
- 3 Review and refine safety inspection plan**
- 3.1** Consult with dam operational personnel for on-site evaluation of the dam safety inspection plan and inspection checklists
 - 3.2** Review the dam safety inspection plan and checklists and make changes based on feedback from dam operational personnel
 - 3.3** Recommend the implementation of the dam safety inspection plan and inspection checklists
 - 3.4** Provide advice and guidance to dam operational personnel and other stakeholders

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.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Assessment Requirements for NWPSOU005 Develop and manage a dam safety inspection plan

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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:

- consulting with relevant personnel and stakeholders
- developing a safety inspection plan
- developing inspection checklists
- developing operational procedures
- identifying and analysing historical dam construction maintenance information
- identifying and interpreting environmental and operational procedures and requirements
- identifying, interpreting and assessing relevant information for developing the safety inspection plan including:
 - historical data
 - industry standards
 - legislation
 - maintenance history
 - workplace policies
- identifying, interpreting and validating stakeholder requirements
- identifying impacts on dam safety inspection planning
- making recommendations for the implementation of the dam safety inspection plan
- providing advice and guidance to personnel and stakeholders
- reviewing status of dam safety inspection plan
- reviewing the dam safety inspection plan and checklists

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and includes knowledge of:

- dam construction maintenance historical information
- dam safety inspection plans and inspection checklists
- environmental and operational procedures and requirements
- implementation procedures

- inspection planning
- relevant legislation, relevant operational personnel and stakeholders
- relevant workplace policies and procedures
- stakeholder requirements

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 suitable workplace operational situations. Where this is not appropriate, assessment must occur in suitable simulated workplace operational situations reflecting actual 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, facilities, equipment and personal protective equipment currently used in industry
- applicable relevant documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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