



Australian Government

UEPOPS042 Implement dam safety surveillance procedures

Release: 1

UEPOPS042 Implement dam safety surveillance procedures

Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry - Generation Sector Training Package Release 2.0.

Application

This unit involves the skills and knowledge required for the scheduling, implementation and reporting of dam safety surveillance.

Surveillance of dams is undertaken to ensure they are operating safely. Reports on dam safety are also required to meet the power generation facility's legislative requirements.

Competency in this unit requires the ability to plan work, implement dam safety surveillance and complete safety surveillance reports. Individuals will, in general, work as an operator, in a power generation facility.

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

Pre-requisite Unit

There are no prerequisite units

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for dam surveillance

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and

	workplace procedures are identified, applied and monitored
	1.2 Resources are identified and obtained in accordance with workplace procedures
	1.3 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures
	1.4 Monitoring frequency and sites for dam surveillance are determined in accordance with workplace procedures
	1.5 Instrument requirements and data collection methods are identified in accordance with workplace procedures
2 Conduct dam safety surveillance	2.1 Dam safety surveillance processes and procedures are implemented in accordance with workplace procedures
	2.2 Data from instruments and personnel is collected and processed in accordance with workplace procedures
	2.3 Test and measurement instruments are used in accordance with manufacturers' recommendations and specifications, and workplace procedures
	2.4 Abnormal conditions and defects are identified and reported to relevant personnel in accordance with workplace procedures
3 Complete safety surveillance reports	3.1 Calibration of instruments is checked after use in accordance with manufacturers' recommendations and specifications, and workplace procedures
	3.2 Dam surveillance reporting and documentation is undertaken in accordance with legislative requirements and workplace procedures

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.

Non-essential conditions may be found in the UEP Electricity Supply Industry - Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS345 Implement dam safety surveillance procedures.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>

Assessment Requirements for UEPOPS042 Implement dam safety surveillance procedures

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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 two separate occasions and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- collecting, processing and analysing data
- communicating with personnel
- completing dam safety surveillance reports using documentation procedures
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- inspecting dams
- interpreting manuals
- planning for dam surveillance
- reading dam drawings, plans and charts
- undertaking dam safety surveillance
- using equipment and instruments, including testing and recording 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 include knowledge of:

- arrangements of hydro power production plant
- dam design principles
- dam types and characteristics
- data collection methods and techniques
- hydro power plant and equipment, location and operating parameters
- manuals

- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- required responses to dam surveillance findings
- surveillance of dams
- testing and recording equipment
- WHS/OHS requirements, including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures.

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:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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