



Australian Government

UEPOPS345 Implement dam safety surveillance procedures

Release: 1

UEPOPS345 Implement dam safety surveillance procedures

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

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.

Note: Workplace practice

The application of the skills and knowledge described in this unit may require a licence or training permit to practice in the workplace where work is carried out on gas and electrical installations. Additional conditions may apply under state and territory legislative and regulatory licensing requirements.

Pre-requisite Unit

There are no prerequisite units.

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

- | | |
|--|--|
| 1 Plan and prepare for dam surveillance | 1.1 Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) regulations, legislative requirements, industry standards, codes of practice, manufacturers' specifications, environmental obligations and workplace procedures are identified, applied and monitored

1.2 Resources are identified and obtained, in accordance with workplace procedures

1.4 Industry standards and regulatory requirements for dam surveillance are identified and interpreted, in accordance with workplace procedures

1.5 Monitoring frequency and sites for dam surveillance are determined, in accordance with workplace procedures and site requirements

1.6 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 workplace procedures, manufacturers' instructions and site requirements

2.4 Abnormal conditions or defects are identified and reported to appropriate personnel, in accordance with workplace procedures |
| 3 Complete safety surveillance reports | 3.1 Calibration of instruments is checked after use, in accordance with workplace procedures and manufacturers' specification

3.2 Dam surveillance reporting and documentation is undertaken, in accordance with workplace procedures and legislative requirements |

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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS345B 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 UEPOPS345 Implement dam safety surveillance procedures

Modification History

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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, performance criteria and range of conditions on at least two separate occasions and includes:

- 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 legislation, industry standards, codes of practice and regulations
- inspecting dams
- interpreting manufacturers' specifications and 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, performance criteria and range of conditions and includes knowledge of:

- dam design principles
- dam, types and characteristics including
- data collection methods and techniques
- hydro power plant and equipment, its location and operating parameters
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals

- required responses to dam surveillance findings
- surveillance of dams
- test and record equipment
- typical arrangements of hydro power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 currently used in industry
- applicable documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

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