



**Australian Government**

# **UEPOPS344 Conduct water conveyance and control**

**Release: 1**

# UEPOPS344 Conduct water conveyance and control

## 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 operation of storage, conveyance and control systems of hydro generation water supplies.

Water storage, conveyance and control systems can include dams, canals, pipelines, tunnels and related hydraulic components and structures.

Competency in this unit requires the ability to plan work, supply water for power generation, implement flood control procedures and complete all documentation. Individuals will, in general, work as an operator in a power generation facility.

Power generation plant operators are typically trained and authorised to isolate, prepare plant and issue permits to work.

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 outcomes.

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

#### 1 Plan and prepare

- 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 Work requirements for storage, conveyance and control systems of hydro generation water supplies are identified and confirmed with appropriate personnel or by site inspection, in accordance with workplace procedures
- 1.3 Resources are identified and obtained, in accordance with workplace procedures
- 1.4 Potential hazards are identified and risk control measures are selected, in accordance with workplace procedures
- 1.5 Storage, conveyance and control hydro system work is sequenced and prioritised, in accordance with workplace procedures

#### 2 Supply water for power generation

- 2.1 Inspections of hydro storage and conveyance systems are scheduled and problems are reported and monitored, in accordance with workplace procedures
- 2.2 Water quality is monitored and recorded, in accordance with workplace procedures
- 2.3 Water flow regulating systems are monitored and adjusted to meet power generation needs, and other user requirements, in accordance with workplace procedures
- 2.4 Water flow diversions are determined to facilitate maintenance or emergency activities, in accordance with workplace procedures
- 2.5 Dam surveillance procedures are performed, in accordance with workplace procedures
- 2.6 Dam levels are maintained and monitored, in accordance with workplace procedures and power generation system

- requirements
- 2.7** Functional tests of equipment are undertaken, in accordance with manufacturers' specifications and workplace procedures
- 3 Implement flood control procedures**
- 3.1** Potential flood conditions are determined using data collected and reports communicated, in accordance with workplace procedures
- 3.2** Flood control procedures are implemented, in accordance with workplace procedures
- 3.3** Flood control outcomes are monitored, recorded and reported to appropriate personnel and are reviewed, in accordance with workplace procedures
- 4 Complete documentation**
- 4.1** Equipment problems, movements and status are reported, in accordance with workplace procedures
- 4.2** Documentation is updated, in accordance with 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 Companion Volume Implementation Guide.

## Unit Mapping Information

This unit replaces and is equivalent to UEPOPS344B Conduct water conveyance and control.

## Links

Companion Volume implementation guides are found in VETNet -

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