



Australian Government

UEPOPS006 Collect and analyse hydrological and meteorological data

Release: 1

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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 to predict and determine inflows in catchment areas within a hydro-powered electricity generation system.

Inflow forecasting for hydro-powered electricity generation systems depends on several elements such as weather, snow cover, ground conditions and the run-off process in catchment areas. All these elements help give insight into future water availability.

Competency in this unit requires the ability to plan for work, plan and prepare to conduct data collection, undertake data collection, verify and report data collection and complete documentation. Individuals will, in general, work under supervision, in a power generation facility as an operator.

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

Pre-requisite Unit

UEPOPS122 Perform process plant inspection

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Plan for work related issues | 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 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures |
| | 1.3 Preoperational check on hydrological and meteorological equipment is carried out in accordance with workplace procedures |
| 2 Plan and prepare to conduct data collection | 2.1 Hydrological and meteorological equipment is selected to conduct data collection in accordance with workplace procedures |
| | 2.2 Hydrological and meteorological equipment is recalibrated for preparation of survey in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 2.3 Potential hydrological and meteorological hazards are assessed, and risk control measures are implemented in accordance with workplace procedures |
| | 2.4 Meteorological charts and data are assessed for use in accordance with workplace procedures |
| 3 Undertake data collection | 3.1 Measurement site in catchment area is established in accordance with workplace procedures |
| | 3.2 Hydrological and meteorological instrumentation is set out in the catchment area in accordance with manufacturers' recommendations and specifications, and workplace procedures |
| | 3.3 Measurements are taken in accordance with workplace procedures |
| | 3.4 Measurements are recorded in accordance with workplace procedures |
| | 3.5 Tools and equipment are cleaned and stored in accordance with workplace procedures |
| 4 Verify and report data | 4.1 Measurements are analysed to verify accuracy of |

findings, and data is entered into data system in accordance with workplace procedures

- 4.2** Work order requirements are completed 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 UEP Electricity Supply Industry –Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS431 Collect and analyse hydrological and meteorological data.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>