



Australian Government

Assessment Requirements for UEPOPS431

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 Generation Training Package.

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:

- analysing meteorological and hydrographical data using analysis techniques and tools
- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - risk control measures
 - safe working practices
- completing documentation
- coordinating the operation of meteorological and hydrographical instrumentation and equipment to undertake
 - conducting and calculating depth measurements
 - determining inflows based on snow melt
 - measuring snow depth and stream flows
- displaying safety procedures in remote locations including survival techniques
- implementing legislation, industry standards, codes of practice and regulations
- planning and preparing to conduct data collection
- recognising abnormal meteorological and hydrographical conditions interpreting manufacturers' specifications and manuals
- undertaking data collection
- verifying and reporting data collection

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:

- calibration of meteorological and hydrographical instrumentation
- inflow forecasting

- interpretation of hydrological and meteorological data using analysing tools and techniques
- interpreting meteorological charts
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- meteorological and hydrographical equipment, its location and operating parameters
- personal safety and working alone in remote locations
- snow depth gauging
- stream gauging
- survival techniques including hypothermia and snake avoidance
- water quality monitoring
- WHS/OHS legislated requirements including:
 - risk control measures
 - emergency procedures
 - 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

Companion Volume implementation guides are found in VETNet -

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