



**Australian Government**

# **Assessment Requirements for UETDRSO007 Manage high voltage distribution and sub-transmission network demand**

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## **Modification History**

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package Release 2.0.

## **Performance Evidence**

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- demonstrating at least three (3) system manipulations that encompass the following:
  - high voltage (HV) sub-transmission distribution network
  - transmission network manipulation to control loading on equipment
  - transformers with HV windings
  - HV busbars
  - HV isolators
  - HV switchgear (applicable to enterprise equipment)
- managing multiple switching instructions
- coordinating the status of access permits/authorities on HV network equipment
- ensuring network plant operates within design and regulatory requirements on a real time basis
- calculating line loading
- preparing and authorising HV distribution switching programs
- demonstrating application of supervisory control and data acquisition (SCADA) or equivalent
- analysing, diagnosing and reporting system failures
- calculating and analysing paralleling conditions on the interconnected HV system as applicable to the entity
- preparing, writing and checking switching sheets to undertake all of the following:
  - managing load
  - managing voltage
  - minimising loss
  - maximising system reliability
  - allowing safe network access for maintenance activities
  - allowing safe network access for construction activities

- validating fault reports arising from system disturbances
- dealing with unplanned events on at least one (1) occasion,

## Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- enterprise-specific procedures and work practices relating to managing network demand encompassing:
  - Commonwealth/state/territory and local government legislation, supply authority regulations, standards, codes and/or enterprise requirements applicable to the procedures and work practices relating to managing network demand
  - requirements for the use of demand management manuals, system diagrams/plans and drawings
  - identifying and interpreting enterprise demand management procedures
  - techniques in applying enterprise demand management procedures
- effective management and communication encompassing:
  - Commonwealth/state/territory and local government legislation, standards, codes, supply authority regulations and/or enterprise requirements applicable to assisting in effective management and communication
  - enterprise operational principles - workplace WHS/OHS enterprise plan, environmental enterprise policies and procedures, industrial relations policies and procedures, and anti-discrimination policies and procedures
  - relationship between the management and employees - methods used to collate and distribute/disseminate information, responsibilities of each member of the work team, staff development activities and legislation requirements with regard to WHS/OHS training, methods of addressing barriers such as literacy and cultural differences, and provisions relating to WHS/OHS issue resolution
  - techniques associated with organisational policies and procedures related to human resources - relevant awards and certified agreements, legislation impacting on people management, range of support services and expertise available
  - techniques in managing relationships - identifying problems; methods of conflict resolution; methods of consultation, communication, negotiation and mentoring; and strategies for positive feedback
  - techniques in leadership in achieving enterprise strategic and operational plans
  - techniques in managing relationships under stress - stress management
- methodology used in writing enterprise-specific management reports encompassing:
  - Commonwealth/state/territory and local government legislation, supply authority regulations, standards, codes and/or enterprise requirements applicable to the writing enterprise-specific management reports
  - techniques in researching, collating and analysing information for the report - recording, filing, retrieving systems, and storing and retrieving data from computer systems
  - relationship of management reports to enterprise policies and procedures - enterprise

structure and resources, workplace WHS/OHS and risk management enterprise data, financial and operational data, environmental enterprise policies and procedures, industrial relations policies and procedures, and anti-discrimination policies and procedures

- techniques in writing enterprise-specific management reports - methods used to disseminate information and facilitate enterprise requirements, document proformas, and compliance and legislative requirements to produce effective reports in the appropriate format.

## 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 conditions involving realistic and authentic activities that replicate operational 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, facilities, equipment, protection, control, metering and alarm equipment, computerised electrical plant control and monitoring facilities, and personal protective equipment (PPE) currently used in industry
- applicable documentation including, workplace procedures, relevant industry standards, equipment specifications, regulations, codes of practice, operational event data, network drawings, crisis management procedures and operation manuals.

## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>