



Australian Government

Assessment Requirements for UETTDRSO42 Manage power systems transmission network demand

Release: 1

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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.

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 encompassing:
 - extra high voltage (EHV) transmission network
 - transmission network manipulation to control loading on equipment
 - transformers with EHV windings
 - EHV busbars
 - EHV isolators
 - EHV switchgear (applicable to enterprise equipment)
 - dispatch of static/synchronous VAR compensation (if applicable to enterprise)
 - dispatch of generation (if applicable to enterprise)
- undertaking all of the following:
 - writing switching instructions
 - analysing and reviewing switching instructions
 - managing multiple switching instructions
 - calculating line loading
 - preparing and authorising EHV transmission switching programs
 - demonstrating application and administration of supervisory control and data acquisition (SCADA) or equivalent
 - analysing and diagnosing of system failure
 - calculating and analysing transmission line conditions on the interconnected EHV system
- preparing, writing and checking switching sheets to:
 - manage load
 - manage voltage
 - minimise loss
 - maximise system reliability

- allow safe network access for maintenance activities
- allow safe network access for construction activities
- validating fault reports arising from system disturbances
- dispatch static/synchronous VAR compensation (if applicable to enterprise)
- dispatch generation (if applicable to enterprise)
- 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
 - identify and interpret 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, and 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, computerised electrical plant control and monitoring facilities, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, relevant network modelling tools, drawings, operational event data, codes of practice and operation manuals.

Links

UET Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>