



Australian Government

**Assessment Requirements for
UETDRSO012 Coordinate and manage
distribution and sub-transmission network
access and activities**

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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 4.0.

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 (2) separate occasions and include:

- applying relevant legislation, regulations, standards, codes of practice and organisational workplace requirements including:
 - work health and safety (WHS)/occupational health and safety (OHS) requirements
- identifying hazards, assessing risks, and identifying, applying and monitoring control measures
- dealing with an unplanned event on at least one (1) occasion
- obtaining and signing on and off relevant work permits in accordance with workplace requirements
- completing relevant work records, reports and documentation
- evaluating and monitoring work plans for best outcomes in accordance with workplace requirements
- making coordination decisions in accordance with best outcomes, safety control measures, and workplace requirements
- coordinating and managing at least one (1) work team according to best outcomes, individual competencies and workplace requirements
- coordinating and managing one (1) work plan for access to each of the following:
 - high voltage (HV) transformer
 - HV switchgear
 - HV lines
 - HV bus
- coordinating and managing one (1) work plan, which considers at least two (2) of the following:
 - commissioning of HV plant
 - planned interruption to HV customer
 - installation of a mobile generator
 - consideration of paralleling feeders
 - HV switching impact on low voltage (LV) customers

- HV capacitors
- HV regulators
- managing all of the following for each of the work plans:
 - load
 - voltage
 - system reliability
 - critical customers
- completing all of the following:
 - checking switching instructions
 - calculating plant loading
 - monitoring switching progress
 - monitoring the status of access permits and authorities
 - ensuring network plant operates within specifications
 - applying and administering supervisory control and data acquisition (SCADA)
 - meeting paralleling conditions for interconnected networks.

Knowledge Evidence

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

- relevant legislation, regulations, standards, codes of practice and organisational workplace requirements, including WHS/OHS requirements
- hazard, risk assessment and risk control requirements, including possible hazards
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- workplace records, reports and documentation
- application, purpose, and types of permits, and access authority procedures
- coordination and management of work teams for best outcomes, individual competencies and workplace requirements
- interconnected HV electrical networks, including fundamentals of HV single wire earth return (SWER) system
- principles of harmonics
- principles of resonant networks
- fault levels and settings
- load calculation
- operating agreements
- types, characteristics and capabilities of electrical apparatus
- types, characteristics and capabilities of specialised tools and testing equipment
- manuals, system diagrams, plans and drawings
- HV switching principles, including:
 - HV switching operator responsibilities

- sources of possible back-feed
- restrictions on electrical apparatus
- HV isolation procedures
- HV earthing procedures.

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:

- relevant and appropriate computerised electrical plant control and monitoring facilities currently used in industry
- applicable documentation, including workplace requirements, 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>