



Australian Government

Assessment Requirements for UETDRSO021 Respond to protection operations

Release: 1

Assessment Requirements for UETDRSO021 Respond to protection operations

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 the requirements of the elements and performance criteria on at least two (2) separate occasions and include:

- establishing the purpose of the response
- identifying hazards, assessing risks, and identifying, applying and monitoring control measures
- confirming, reviewing, and updating workplan, based on technical advice and data analysis
- determining and issuing work permits
- prioritising and sequencing response
- allocating work in accordance with skills and capabilities
- updating stakeholders
- dealing with an unplanned event on at least one (1) occasion
- monitoring work progress in accordance with the work plan
- checking completed work for compliance against the work plan and workplace requirements
- obtaining and issuing relevant work permits
- completing relevant work records, reports and documentation
- responding on at least three (3) occasions, to all the following:
 - relay operations
 - event data
 - alarms
- interpreting on at least three (3) occasions, all of the following:
 - resource capabilities
 - equipment capabilities
 - network configuration
 - weather.

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:

- response purpose, sequencing and prioritisation
- operational personnel requirements and management
- hazard, risk assessment and risk control requirements, including potential hazards
- events constituting an unplanned event or incident
- procedures for responding to an unplanned event or incident
- work records, reports and documentation
- relay operations, event data and alarms
- resource and equipment capabilities, network configuration, and weather
- stakeholder communication
- purpose of a protection scheme, including:
 - safety of persons
 - protection of plant
 - system stability
 - maintaining customer supply
 - reliability
- protection scheme principles, including:
 - purpose of protection
 - protection zones
 - duplicate protection
 - backup protection
 - selectivity
 - discrimination
 - sensitivity
 - reliability
- protection scheme components, including
 - current and potential transformers
 - relays
 - sensors
 - communication
- protection scheme types, including:
 - overcurrent
 - overvoltage
 - differential
 - biased differential
 - earth leakage
 - structure leakage
 - gas
 - restricted earth-fault
 - distance
 - auto-reclose

- pilot wire
- directional
- directional overcurrent
- phase comparison
- current comparison.

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 tools, 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, drawings 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>