



Australian Government

Assessment Requirements for UETDRTS035 Conduct evaluation of network protection and control system faults

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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:

- identifying hazards, assessing risks, and identifying, applying and monitoring control measures
- determining the preparation required for the evaluation of network protection and control system faults including:
 - workplace organisational requirements
 - testing procedures and parameters
 - tools, equipment, personal protective equipment (PPE) and work permits
 - stakeholder liaison
- inspecting and using relevant tools, equipment and PPE
- demonstrating at least two (2) downloads from protection and control, or recording equipment
- developing five (5) evaluation reports on power system events, including all of the following:
 - interpretation of targets, flags and indicators
 - interpretation of fault reports using downloaded event data
 - development of conclusions and recommendations
- documenting faults and evaluating findings in accordance with workplace requirements.

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:

- electrical equipment associated with protection and control schemes including:
 - types and applications
 - characteristics and capabilities
 - diagrams and operating manuals
- testing techniques and procedures
- types and applications of test equipment

- operation procedures for protection and control devices
- relay manufacturer specifications, types, functions and characteristics
- measurements, interpretation and analysis of protection and control schemes
- detailed operation and setting of protection and control schemes
- location and rectification of faults
- fundamentals of high voltage (HV) plant and associated apparatus.

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 and PPE currently used in industry
- applicable documentation, including workplace requirements, relevant 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=229bace1-b7bc-4653-9300-dffb13ecfad7>