



Australian Government

Assessment Requirements for UEPOPS089 Operate and monitor d.c. electrical systems

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEP Electricity Supply Industry – Generation Sector Training Package Release 2.0.

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 separate occasions and include:

- analysing system, switchgear and rectifier equipment, direct current (d.c.) electrical system and protection faults using diagnostic and test techniques
- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - emergency procedure
 - risk control measures
 - safe working practices
- communicating with personnel
- completing documentation using recording procedures
- conducting switching, switchgear, switchboard and rectifier system operations
- identifying d.c. electrical system plant status
- implementing regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- interpreting manuals
- monitoring and inspecting equipment and d.c. electrical system operation
- operating switchgear and equipment
- organising resources
- preparing d.c. electrical system plant and equipment for operation
- recognising and responding to abnormal d.c. electrical system plant operating conditions
- testing d.c. electrical system, switchgear and rectifier equipment operationally using data analysis techniques and tools
- working with permit to work system.

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:

- arrangements of power production plant

- d.c. electrical system plant and equipment, location and operating parameters
- d.c. electrical system plant status
- d.c. switchgear types and characteristics
- manuals
- permit to work system
- regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, and environmental requirements
- WHS/OHS requirements, including:
 - emergency procedure
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and 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 workplace operational situations that replicate 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, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, 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=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>