



Australian Government

UETTDRSO45 Operate and monitor system SCADA equipment

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.

Application

This unit covers the skills and knowledge to operate, monitor and control high voltage (HV) apparatus on the network via supervisory control and data acquisition (SCADA) control.

The application of the skills and knowledge described in this unit may require a licence/registration to practice in the workplace subject to regulations for undertaking of electrical work.

Other conditions may apply under state and territory legislative and regulatory licencing requirements which must be confirmed prior to commencing this unit.

Pre-requisite Unit

Common Unit Group

UETTDRREL15 Respond to power systems technical enquiries and requests

Competency Field

System Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan and prepare for the operation, monitoring and control of system equipment

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and safety (OHS) practices/procedures and environmental and sustainable energy procedures, which may influence the preparation of the switching program, are reviewed

and determined

- 1.2 System requirements are established after data is analysed and expected outcomes of the work are confirmed with appropriate personnel
 - 1.3 System and associated equipment operational prerequisites are identified and established in accordance with manufacturer and/or enterprise/site procedures
 - 1.4 System monitoring and control procedures are discussed with and/or directed to appropriate personnel in order to ascertain the project brief
 - 1.5 Operational parameters are ascertained from established policies, procedures and specifications
 - 1.6 Work roles and tasks are allocated according to requirements and individual competencies
 - 1.7 Work is prioritised and sequenced for the most efficient/effective outcome, completed within an acceptable timeframe, to a quality standard and in accordance with established procedures
 - 1.8 Liaison and communication issues with others/authorised personnel, authorities and clients are resolved and activities coordinated to carry out work
 - 1.9 Risk control measures are identified, prioritised and evaluated against the work schedule
 - 1.10 Relevant work permits are secured to coordinate the performance of work according to requirements and/or established procedures
 - 2 **Carry out and coordinate the operation, monitoring and control of system equipment**
 - 2.1 WHS/OHS and sustainable energy principles, functionality and practices to reduce the incidents of accidents and minimise waste are incorporated into the project in accordance with requirements and/or established procedures
 - 2.2 Decisions concerning the operation, monitoring and control of system equipment are made on the basis of safety and effective outcomes according to requirements and/or established procedures
 - 2.3 The effectiveness of the finished project is analysed in accordance with requirements and established

procedures

- 2.4 Technical advice is given regarding potential hazards, safety risks and control measures so that monitoring and preventative action can be undertaken and/or appropriate authorities consulted, where necessary, in accordance with requirements and established procedures
 - 2.5 Essential knowledge and associated skills are applied to analyse specific data and compare it with compliance specifications to ensure completion of the project within an agreed timeframe according to requirements
 - 2.6 Work teams/groups are arranged/coordinated/evaluated to ensure planned goals are met according to established procedures
 - 2.7 Solutions to non-routine problems are identified and actioned, using acquired essential knowledge and associated skills, according to requirements
 - 2.8 Quality of work is monitored against personal performance agreement and/or established organisational and professional standards
- 3 **Complete the operation, monitoring and control of system equipment**
 - 3.1 Final review of the operation, monitoring and control of system equipment is undertaken to ensure it complies with all requirements and include all specifications and documentations needed to complete the project
 - 3.2 Appropriate personnel are notified of completion and reports and/or completion documents are finalised/commissioned
 - 3.3 Reports and/or completion documents are submitted to relevant personnel/organisations for approval and, where applicable, statutory or regulatory approval

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UETTDRSO45A Operate and monitor system SCADA equipment.

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>