



Australian Government

UEPOPS107 Operate and monitor supervisory control and data acquisition 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.

Application

This unit involves the skills and knowledge required to undertake monitoring and operation of screen based supervisory control and data acquisition (SCADA) systems.

SCADA is a control system that uses computers, networked data communications and graphic interfaces. It may also use other peripheral devices to interface with process plant and/or machinery in power generation facilities.

Competency in this unit requires the ability to operate SCADA, monitor and interpret information and enhance screen display. Individuals will, in general, work under supervision, in a power generation facility as an operator.

Power generation plant operators are typically trained and authorised to isolate, prepare plant and issue permits to work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

There are no prerequisite units

Competency Field

Operations

Unit Sector

Electricity generation

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Operate SCADA screen displays | <p>1.1 Work health and safety (WHS)/occupational health and safety (OHS) regulations, legislative requirements, codes of practice, manufacturers' recommendations and specifications, environmental requirements and workplace procedures are identified, applied and monitored</p> <p>1.2 Work requirements are identified from relevant personnel and documentation in accordance with workplace procedures</p> <p>1.3 Screen displays and applications are identified and retrieved in accordance with workplace procedures and SCADA system requirements</p> <p>1.4 Functions available from the screen-based equipment are identified and selected in accordance with workplace procedures and SCADA system requirements</p> <p>1.5 Functions available from screen-based equipment are utilised in accordance with workplace procedures and SCADA system requirements</p> |
| 2 Monitor and interpret SCADA information | <p>2.1 Screen displays are monitored in accordance with workplace procedures and SCADA system requirements</p> <p>2.2 Abnormal values or faults are identified by analysis of information obtained from screen displays in accordance with workplace procedures and SCADA system requirements</p> <p>2.3 Corrective action is taken in accordance with workplace procedures and SCADA system requirements</p> <p>2.4 Alarms are acknowledged, prioritised and responded to in accordance with workplace procedures and SCADA system requirements</p> |
| 3 Enhance SCADA screen display | <p>3.1 Requirements for the development of new screen displays are identified and confirmed in accordance with workplace procedures and SCADA system requirements</p> <p>3.2 New screen displays are researched, assessed and confirmed with relevant personnel in accordance with workplace procedures and SCADA system requirements</p> |

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 UEP Electricity Supply Industry – Generation Sector Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEPOPS347 Operate and monitor supervisory, control and data acquisition systems.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>