



Australian Government

UEECS0015 Develop energy sector computer network applications infrastructure

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to develop energy sector computer network applications infrastructure.

It includes preparing to install and configuring components for network applications infrastructure. It also includes applying safe working practices and documenting activities.

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

Pre-requisite Unit

Not applicable

Competency Field

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to develop a network applications infrastructure

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) processes and workplace procedures for a given work area are identified, obtained and applied
- 1.2** WHS/OHS risk control measures and workplace procedures are followed in preparation for the work

- 1.3 Network application infrastructure to be developed is determined from network performance specifications and in consultation with relevant person/s
 - 1.4 Activities are planned in accordance with workplace procedures to meet timelines in consultation with others involved
 - 1.5 Development tools and software are selected in accordance with relevant industry standards and network performance requirements
 - 1.6 Activities are implemented to ensure network development is carried out efficiently
- 2 **Install and configure components**
 - 2.1 WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
 - 2.2 Complexities of network applications infrastructure are applied to developing the network
 - 2.3 Network applications infrastructure components in use and installed are configured for the network in accordance with industry standards
 - 2.4 Management components of the network applications infrastructure are configured in accordance with relevant industry standards and requirements of the network
 - 2.5 Security components of the network applications infrastructure are created in accordance with relevant industry standards and requirements of the network
 - 2.6 Network malfunctions are identified and rectified using techniques in accordance with workplace procedures and relevant industry standards
 - 2.7 Network is monitored and solutions are developed to optimise network performance in accordance with workplace procedures
 - 2.8 Security events are analysed and actions taken in accordance with workplace procedures
 - 2.9 Unplanned events are identified and resolution techniques are applied in accordance with workplace procedures
 - 2.10 Quality of work is monitored in accordance with

workplace procedures and/or relevant industry standards

3 Complete network activities report/s

- 3.1** Documentation is produced for network services completed activities and relevant person/s notified in accordance with workplace procedures
- 3.2** Network applications infrastructure development records are maintained in accordance with workplace procedures

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 UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to UEENEED149A Develop energy sector computer network applications infrastructure.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>

Assessment Requirements for UEECS0015 Develop energy sector computer network applications infrastructure

Modification History

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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 separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - using risk control measures
- completing network activity reports
- configuring management components of the network applications infrastructure
- configuring security components of the network applications infrastructure
- dealing with unplanned events in accordance with problem-solving techniques and workplace procedures
- determining network applications infrastructure to be developed
- developing solutions to optimise network performance.
- documenting network applications infrastructure development activities
- identifying and rectifying network malfunctions
- installing and configuring components
- preparing to develop a network applications infrastructure.

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:

- configuring network application services
- problem-solving techniques
- relevant components of network applications
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant security procedures
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace quality, instructions, 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 suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable 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 simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to developing energy sector network applications infrastructure
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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