



Australian Government

Assessment Requirements for UEEIC0005 Configure and maintain industrial control system networks

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.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and include:

- applying sustainable energy principles and practices
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements
- configuring and maintaining industrial control system networks
- configuring access to control data and resources for each user
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- documenting network configuration and maintenance activities
- determining industrial control system and network requirements and operating system versions and updates
- identifying network malfunctions/faults
- installing, upgrading and configuring control application network components correctly
- rectifying network malfunctions/faults in accordance with workplace procedures
- documenting control system network configuration and maintenance requirements
- planning and preparing to configure and maintain industrial control system networks.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- bus monitor, including capturing and filtering
- control system networks interface
- data link layer
- field bus message specification
- high-speed ethernet and protocols
- industrial control systems networks
- network topology, including nodes and connecting lines

- open and common proprietary control system networks models (layers) and protocols
- purpose and application of control system networks systems
- relevant job safety assessments or risk mitigation processes
- relevant industry standards and protocols
- relevant manufacturer specifications
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- sustainable energy principles and practices.

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 configuring and maintaining industrial control system networks
- 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=b8a8f136-5421-4ce1-92e0-2b50341431b6>