Assessment Requirements for UEEDV0011 Set up and configure basic data communication systems

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 relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including using risk control measures
- carrying out set-up configuration and maintenance efficiently without waste of materials or damage to apparatus, surrounding environment and/or services using sustainable energy practices
- completing work and documenting activities
- dealing with unplanned situations
- determining layout of data communications hardware cabling and outlets
- determining the extent of work schedule
- documenting network configurations and activity results for future referencing
- finding the cause of faults
- identifying and correcting anomalies
- installing and configuring software to requirements
- installing data communications software
- installing hardware
- laying out network in accordance with job specifications
- obtaining specified hardware and software
- preparing to set up and configure data communication systems
- rectifying identified causes of reported problems
- reviewing reported data communications failures and faults
- setting up, configuring and maintaining data communication equipment
- testing data communications operations.

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:

- characteristics and limitations of the types of transmission media
- communications configuration and maintenance records
- problem-solving techniques
- process of data transmission
- protocols
- relevant data communications software
- relevant manufacturer specifications and operating instructions
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation, including communications configuration and maintenance records
- relevant workplace policies and procedures
- sustainable energy principles
- types, characteristic specifications and limitations of fibre optic systems
- types, characteristics and limitations of modems and interface standards.

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 setting up and configuring basic data communications systems
- 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