



Australian Government

Assessment Requirements for UEECD0064

Interpret, produce and modify electrotechnology drawings

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the 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 and performance criteria on at least two separate occasions and include:

- extracting information from drawings and diagrams
- interpreting drawings, diagrams and plans to determine the location of electrical/communication/audio accessories, appliances and cable runs
- using drawings, diagrams, cable/connection schedules, industry standards and codes of practice used in electrotechnology work
- interpreting drawings, diagrams, cable/connection schedules and manuals correctly
- using correct conventions in freehand drawings
- sketching and marking up basic circuit diagrams
- using drawings, diagrams, schedules and manuals to convey information and ideas and obtain job information
- producing the following:
 - circuit diagram
 - single line diagram
 - termination drawing
 - loop drawing
 - wiring diagram
 - block diagram
- marking up an existing printed drawing
- using a computer drawing package to:
 - produce a drawing
 - modify a drawing
- checking drawings for accuracy and compliance with job specifications.

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:

- architectural and building construction drawings and diagrams, including:
 - different types of drawings
 - relevant information included in drawings and diagrams
 - Australian standard symbols
 - building types and their construction
 - typical cable routes through buildings, structures, and premises
- circuit diagrams, including:
 - purpose of circuit diagrams in the electrotechnology industry
 - conventions used in and the features of circuit diagrams
 - common symbols used in circuit diagrams
- electrical drawings, including:
 - types of electrical drawings: block, circuit, wiring and ladder diagrams
 - purpose and application of block, circuit, wiring and ladder diagrams
 - Australian standard symbols used to represent components on electrical diagrams
 - identification of cable type, origin and route from a cable schedule
 - developing a cable schedule for a given installation
- wiring diagrams, including:
 - purpose of wiring diagrams in the electrotechnology industry
 - conventions used in and the features of wiring diagrams
 - common symbols used in wiring diagrams.
- computer drawing packages including:
 - features and capability
 - file management
 - symbols
 - drawing layout
 - commands
 - viewing and printing options.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated 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 other simulations
- relevant and appropriate materials, tools, software and equipment used in industry
- applicable documentation, including drawings, diagrams, specifications, 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>