



Australian Government

Assessment Requirements for UEEEL0006 Develop detailed and complex drawings for electrical systems using CAD 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 and performance criteria on at least two separate occasions and include:

- applying graphical techniques to produce products, processes, systems or services design representations
- applying knowledge of complex electrical equipment design drawing methods, techniques, procedures and protocols and documenting design
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including
 - using risk control measures
- developing a variety of detailed and complex electrical drawings
- incorporating feedback into final products
- interpreting and using technical data and specifications
- preparing to develop detailed and complex drawings for electrical systems
- presenting designs of electrical engineering products, processes, systems or services
- producing drafting documentation
- producing drawing sets
- selecting relevant computer-aided design (CAD) software tools, components, materials and equipment.

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:

- managing resources
- relevant advanced CAD systems
- relevant CAD modelling techniques
- relevant computer-based modelling, design, drafting and application systems
- relevant graphical engineering design techniques for products, processes, systems or services representation
- relevant manufacturer specifications and operating instruction

- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace 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 detailed and complex drawings for electrical 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>