



Australian Government

Assessment Requirements for UEERA0061 Produce HVAC/R system design drawings

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 one occasion and include:

- understanding the extent of the drawing work accurately
- determining appropriate types of drawings and their layouts correctly
- including appropriate technical data parameters in the drawings
- checking and correcting drawings accurately
- filing copies of completed drawings securely
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- completing and reporting heating, ventilation and air conditioning/refrigeration (HVAC/R) design drawings
- preparing to produce HVAC/R design drawings
- producing HVAC/R design drawings.

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:

- HVAC/R system drawing, safe working practices and relevant standards, codes and regulations, including:
 - architectural and mechanical drafting conventions encompassing:
 - fire, hydraulic, electrical layout diagrams
 - sketching of pipe work circuits and mechanical services
 - drawing standards and symbols
 - working, detail and assembly drawings
 - ductwork layouts and conventions
 - pipe work layouts and conventions

- computer-aided drawing techniques
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant software tools and equipment
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace 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
- 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>