



Australian Government

**Assessment Requirements for UEERA0050
Install refrigerant pipe work, flow controls
and accessories**

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 the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying legislation, relevant industry standards, codes of practice and regulations
- applying manufacturer specifications
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - identifying hazards
 - using risk control measures
- completing pipe work, flow controls and accessories installation
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- implementing safe working practices
- installing refrigerant pipe work, flow controls and accessories for refrigeration and air conditioning systems, including:
 - checking operation, adjusting settings and replacement of flow controls
 - preventing pipe work contamination
 - connecting pipe work, flow controls and accessories to comply with requirements
 - ensuring pipe work, flow controls and accessories will not leak under pressure
 - placing and securing flow controls and accessories
 - reading and interpreting drawings related to pipe work layouts and apparatus locations
 - routing, placing and securing pipe work to comply with requirements
- preparing to install pipe work, flow controls and accessories.

Knowledge Evidence

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

- installation of pipe work, flow controls and accessories requirements and practices for

refrigeration and air conditioning systems, including:

- environmental and building regulation responsibilities, including those of working in and around heritage and environmental protection sites
- operation, replacement and adjustment of refrigerant flow controls
- pressure testing refrigerant pipe work
- refrigerant liquid flow controls and distributors, including capillary, thermostatic expansion valve, thermoelectric expansion valve, electronic expansion valve, low side floats, high side floats and liquid level controllers
- refrigerant pipe work accessories, including pipe work fittings, hand valves, isolation valves, solenoid valves, check valves, reversing valves, filter/dryers, sight glasses, accumulators, oil separators and pressure relief devices
- refrigerant vapour flow controls, including evaporator pressure regulators, crankcase pressure regulators, condenser bypass valves and electronic valves/controllers
- refrigeration pipe work, including appropriate piping arrangements for refrigerant lines, including discharge lines, liquid lines and suction lines
- relevant legislation, industry standards, codes of practice and regulations
- relevant manufacturer specifications
- relevant risk mitigation processes, including:
 - safe working practices
 - potential hazards
 - risk control measures
- 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 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, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, industry standards, 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>