



Australian Government

Assessment Requirements for UEERA0059 Prepare and connect refrigerant tubing and fittings

Release: 2

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Modification History

Release 2. This minor update is the second release of this unit of competency in the UEE Electrotechnology Training Package.

Incorrect Performance Criteria numbering in Element 1 fixed.

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 industry standards, codes of practice, regulations and work health and safety (WHS)/occupational health and safety (OHS) requirements, including using risk control measures
- applying sustainable energy principles and practices
- completing documentation and reporting requirements
- identifying and monitoring hazards and using applicable safety data sheets (SDS)/material safety data sheets (MSDS)
- preparing, fabricating and attaching refrigerant tubing and fittings, including:
 - attaching fittings correctly
 - conducting component quality checks
 - cutting, bending and joining refrigerant piping and tubing using appropriate tools and equipment, including compression fittings and high-pressure refrigerants
 - silver brazing copper tubes and fittings using dry nitrogen
- setting up equipment safely.

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:

- copper tube grades, including types, properties, applications and handling
- dissimilar metals, including:
 - aluminium
 - brass

- steel
- stainless steel
- potential hazards with refrigerant tubing and fittings
- refrigerant tubing and fittings techniques, including:
 - annealing
 - bending
 - cutting
 - flaring
 - tube expanding
 - joining
 - silver brazing
 - use of dry nitrogen
- refrigeration copper tube fittings and access valves
- relevant legislation, industry standards, codes of practice and regulations
- relevant manufacturer specifications
- relevant risk mitigation processes, including safe working practices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- SDS/MSDS
- sustainable energy principles and practices
- tools and equipment, including care and maintenance.

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>