



Australian Government

Assessment Requirements for UEERA0067 Repair and service secondary refrigeration 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, performance criteria and range of conditions on at least two separate occasions and include:

- applying relevant legislation, industry standards and practices
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements and workplace procedures and practices, including using risk control measures
- applying sustainable energy principles and practices
- servicing and repairing secondary refrigeration systems, including:
 - applying logical diagnostic methods
 - dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
 - identifying faults and competency needed to rectify them
 - rectifying faults in system controls
 - using fault scenarios to test the cause of system faults
 - verifying that the system operates correctly.

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:

- applicable standards and codes
- basics of secondary refrigeration systems, including:
 - operation
 - applications
 - types and safe handling of secondary refrigerants,
 - need for use of anti-bacterial and corrosion inhibitor
 - use of personal protective equipment (PPE)
- control system, pressure, temperature and safety

- control valves, balance and operational
- documentation and reports
- maintenance procedures for secondary refrigeration systems
- maintenance requirements, including pumps, chemical integrity of refrigerant, cooling coils/freezing coils operation, leak detection additives, leak testing, pipe work and insulation, control valves and control system
- major components types, location, purpose, operation and safety
- refrigerant disposal Environment Protection Authority (EPA) requirements
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant refrigeration system industry standards and codes of practice
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- repairs to secondary refrigerant systems, including:
 - cooling coils/freezing coils
 - system leaks, pipe work or insulation
 - control valves, control system components
 - chemical integrity of refrigerant
- secondary refrigeration systems
- service and repair of secondary refrigeration systems
- tools and equipment for maintenance work.

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 PPE 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>