



Australian Government

**Assessment Requirements for UEERA0095
Recover refrigerant from stationary
self-contained end of life decommissioned
equipment**

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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 environment protection and sustainable energy and resources principles and practices
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures and practices, including:
 - correct use of personal protective equipment (PPE)
 - applying risk control measures
- cleaning, checking and making safe the worksite, tools and equipment
- completing relevant documentation and reporting to relevant person/s
- complying with relevant legislative, regulatory/licensing, standards and code requirements, manufacturer recommendations/instructions and industry practices
- fitting access valves to the system and connecting service gauges
- identifying the refrigeration/air conditioning unit's refrigerant access points and the refrigerant type from the equipment nameplate or manufacturer specifications
- identifying, obtaining and checking relevant equipment, tools and materials required to work with non-flammable and flammable refrigerants, including:
 - recovering unit and recovery cylinder
 - servicing gauges
 - using refrigeration hand tools
- measuring and recording the quantity of the refrigerant recovered
- measuring and recording the recovery cylinder's weight to ensure it can accept the refrigerant to be recovered
- recovering flammable and non-flammable refrigerant from refrigeration or air conditioning systems using appropriate equipment and tools
- storing tools, equipment and recovery cylinder securely.

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:

- leak detectors and 'bubbles' leak detection procedure
- recovery cylinders, including:
 - care and maintenance
 - identifying service access valves
 - leak testing with 'bubbles'
 - ratings for various applications, including non-flammable and flammable refrigerants
 - relevant documentation and records
 - safe handling, storage and transportation
 - tare and refrigerant weight
 - types, markings and labelling
- refrigerants, including:
 - current refrigerants used, including R12, R134a, R22, R407C, R410a, hydrocarbons and flammable synthetics (R32)
 - environmental issues
 - identifying the refrigerants from system's nameplate and manufacturer specifications
 - indicators that the unit may contain flammable refrigerant
- refrigerant oils, including:
 - absorption of refrigerant
 - types
- recovery units, including:
 - basic operation of unit
 - care and maintenance
 - identifying service access valves
 - non-flammable and flammable refrigerant recovery procedures
 - non-flammable and flammable refrigerant types
 - safety precautions
- service gauges, including:
 - manifold gauges:
 - basic types and use for recovering refrigerant
 - care and maintenance
 - hose shut-off valves and adaptors
 - system access fittings:
 - fitting bullet valves and piercing pliers
 - hazards and related safe working practices
 - types

- typical locations, connection and operation
- using service gauges:
 - pressure readings
 - service gauge manifold hose fitting
 - service gauge manifold hose removal
- working safely with refrigerants and refrigerant oils, including:
 - relevant PPE and safety signage
 - relevant workplace and WHS/OHS procedures, including risk assessment and control measures
 - safe handling procedures
 - flammable and non-flammable refrigerant handling reporting requirements
 - relevant legislation, standards and codes
 - safety data sheets (SDS).

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, 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>