



Australian Government

Assessment Requirements for UEERA0037 Establish the basic operating conditions of vapour compression systems - appliances

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 legislation, industry standards, codes of practice and regulations
- applying relevant work, health and safety (WHS)/occupational health and safety (OHS) requirements, including
 - applying risk control measures
 - identifying hazards
 - implementing safe working practices
- completing work and reporting requirements
- determining operating conditions of appliance vapour compression systems, including:
 - selecting and using appropriate measuring devices
 - recording measurements
 - using calculation methods
 - identifying conditions of refrigerant at various locations in appliance vapour compression system
 - documenting operating conditions
 - dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- using manufacturer specifications.

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:

- operating conditions of vapour compression systems used in refrigerated appliances, including:
 - domestic refrigeration
 - vapour compression system

- heat
- temperature and relative humidity
- sensible and latent heat
- pressure
- refrigerant conditions
- vapour compression cycle
- leak detectors
- service gauges
- refrigeration compressors
- condensers and related components
- evaporators and related components
- common refrigerant metering devices
- basic operating conditions
- 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>