



Australian Government

Assessment Requirements for UEERA0031
Diagnose and rectify faults in air
conditioning and refrigeration control
systems

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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 work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - applying safe working practices
 - using risk control measures
- completing and reporting fault-finding and rectification activities
- diagnosing and rectifying faults in refrigeration and air conditioning control systems, including:
 - dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
 - finding at least four faults
 - providing report for rectifications undertaken
 - rectifying faults without damage
 - using approved methodical fault-finding techniques
- implementing legislation, industry standards, codes of practice and regulations
- using manufacturer specifications and manuals.

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:

- diagnose and rectify faults in refrigeration and air conditioning control systems, including:
 - control systems and components
 - method and procedures of finding, rectifying and recording control system faults
 - refrigeration and air conditioning direct digital control applications and basic operation
 - refrigeration and air conditioning electrical/electronic control types, applications, operation, installation/replacement, setting, adjustment and testing

- refrigeration and air conditioning pneumatic control applications and basic operation
- refrigeration and air conditioning process characteristics and control parameters
- system responses to parameter changes
- refrigeration and air conditioning direct digital control applications and basic operation
- relevant legislation, industry standards, codes of practice and regulations
- relevant manufacturer specifications
- relevant risk mitigation processes, including:
 - potential hazards
 - risk control measures
 - safe working practices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- WiFi/router controls for variable air volume (VAV) and remote access controls for refrigeration and air conditioning.

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>