



Australian Government

**Assessment Requirements for UEPMNT415
Diagnose and repair faults in complex
refrigeration and air conditioning
equipment**

Release: 1

Assessment Requirements for UEPMNT415 Diagnose and repair faults in complex refrigeration and air conditioning equipment

Modification History

Release 1. This is the first release of this unit of competency in the UEP Generation Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions on at least two separate occasions and includes:

- applying Work, Health and Safety (WHS)/Occupational Health and Safety (OHS) requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
- communicating with personnel
- completing work as per scheduled requirements
- determining cause of complex refrigeration and/or air conditioning faults
- determining work to permit requirements
- finding complex refrigeration and/or air conditioning faults
- interpreting manufacturers' specifications and manuals
- planning diagnosis and repair of faults in complex refrigeration and air conditioning equipment work
- repairing complex refrigeration and/or air conditioning faults
- safe working practices implementing legislation, industry standards, codes of practice and regulations
- selecting materials
- using repair techniques and procedures
- utilising diagnostic and fault finding techniques and procedures
- verifying complex refrigeration and/or air conditioning faults
- working with test and measurement instruments

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements, performance criteria and range of conditions and includes knowledge of:

- equipment and materials used in repairing faults

- fault finding and diagnostic techniques
- isolations
- legislation, industry standards, codes of practice and regulations
- manufacturers' specifications and manuals
- permit to work system
- power generation plant and equipment, its location and operation
- refrigeration systems, types and characteristics
- repair techniques
- test and measurement instruments
- typical arrangements of power production plant
- WHS/OHS legislated requirements including:
 - emergency procedures
 - hazard identification
 - risk control measures
 - safe working practices
- workplace documentation
- workplace policies and procedures

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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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.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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 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.education.gov.au/Pages/TrainingDocs.aspx?q=1715b9fa-e7bd-441c-bb8d-cf22c9c825a8>