



Australian Government

**Assessment Requirements for MEM18092
Maintain and repair commercial and/or
industrial refrigeration and/or air
conditioning controls**

Assessment Requirements for MEM18092 Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls

Modification History

Release 1. Supersedes and is equivalent to MEM18092B Maintain and repair commercial and/or industrial refrigeration and/or air conditioning controls

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions, on at least two (2) systems, and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting charts, lists, catalogues, specifications, drawings and relevant legislation with respect to maintaining and repairing commercial and/or industrial and/or air conditioning controls
- selecting and using appropriate tools, techniques and equipment necessary to check commercial and/or industrial and/or air conditioning controls for conformance against specifications
- checking and performing adjustments to control sequence using appropriate test equipment meeting/aligning to operational requirements and specifications
- recording any modifications complying with manufacturers' specifications and making all changes to on-site drawings/documents and documenting in accordance with SOPs
- testing and assessing control circuit parts using appropriate test equipment and application principles against operational specifications
- performing maintenance procedures, including overhauling and cleaning of major system components, and testing of all control and safety devices to specifications
- identifying and localising faulty components and confirming malfunction by inspection/testing, and making required adjustments to achieve specifications
- undertaking calculations and numerical operations associated with maintaining and repairing commercial and/or industrial and/or air conditioning controls
- removing/dismantling and reassembling faulty control components and selecting replacement parts from manufacturers' catalogues to meet the required specifications
- checking and adjusting sequence control circuit to meet operational specifications and confirming correct operation
- returning refrigeration/air conditioning controls to service and adopting appropriate follow-up procedures
- completing all service/maintenance reports in accordance with SOPs.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- refrigeration/air conditioning system operational requirements and specifications
- application of common system/circuit components and controllers
- importance of following installation procedures in terms of control operation, safety and reliability
- measuring instruments/equipment and specifications for checking air temperatures, air flows, air quality and air properties
- tools, equipment, techniques and procedures for rectifying faulty conditions and components
- procedures for returning to service and commissioning refrigeration/air conditioning control systems
- operational sequence of the system
- typical adjustments to correct sequencing variations from specification
- typical causes of component failure
- maintenance requirements
- codes and regulations relevant to the refrigeration/air conditioning industry, including environmental and ozone and greenhouse substance legislation
- procedures for reporting/recording modifications/alterations maintenance and reporting non-conformances.

Assessment Conditions

- Assessors must:
 - have vocational competency in maintaining and repairing commercial and/or industrial refrigeration and/or air conditioning controls at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications
- 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.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>