



Australian Government

**Assessment Requirements for MEM18089
Maintain and repair central air handling
systems**

Release: 1

Assessment Requirements for MEM18089 Maintain and repair central air handling systems

Modification History

Release 1. Supersedes and is equivalent to MEM18089B Maintain and repair central air handling systems

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 (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 central air handling systems
- selecting and using appropriate tools, techniques and equipment necessary to check and assess large central air conditioning system, sub-system and components for conformance against specifications, legislation and regulations
- carrying out preventative maintenance tasks according to manufacturers' specifications using refrigeration/air conditioning techniques/practices
- identifying and localising faulty components and confirming malfunction by inspection/testing, making required adjustments to achieve specifications
- removing/dismantling and reassembling faulty components and selecting replacement parts from manufacturers' catalogues to meet the required specifications
- undertaking calculations and numerical operations associated with maintaining and repairing central air handling
- verifying correct operation of the equipment to meet specifications
- completing all maintenance records/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)
- appropriate measuring instruments/equipment and specifications for checking humidity, air temperatures, air flows, air quality and air pressure
- tools, equipment, techniques and procedures for performing preventative maintenance on an air conditioning system and sequence of implementation
- procedures for localising and confirming faulty components
- tools, equipment, techniques and procedures for dismantling and repairing faulty components and selecting replacement parts

- measuring instruments/equipment and specifications required for checking sub-system noise and vibration levels
- techniques and procedures for inspecting, testing and assessing each sub-system components against specifications
- specifications of, and process for, identifying primary and secondary refrigerant, or air distribution/reticulation systems
- operational characteristics of each sub-system component
- codes and regulations relevant to the refrigeration/air conditioning industry, including environmental and ozone and greenhouse substance legislation
- procedures for completing maintenance records/service reports and reporting non-conformances.

Assessment Conditions

- Assessors must:
 - have vocational competency in maintaining and repairing central air handling systems 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>