



Australian Government

Assessment Requirements for MEM10009 Install refrigeration and air conditioning plant and equipment

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM10009B Install refrigeration and air conditioning plant and equipment

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 and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications, drawings, regulatory and legislative requirements for installing refrigeration and air conditioning plant and equipment
- preparing the installation site and ensuring all surfaces are level using appropriate measuring equipment
- installing refrigeration/air conditioning plant and equipment and components to relevant standards
- charging the refrigeration system with refrigerant and lubricant in accordance with procedures
- developing a start-up procedure for installed refrigeration/air conditioning plant checking for conformance with specifications
- identifying any system faults and non-conformance and taking appropriate remedial action in accordance with urgency requirements to address equipment failure and/or personnel danger
- completing all reports and documentation 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)
- procedures for non-compliances
- procedures for checking the refrigeration/air conditioning plant and associated equipment
- procedures for making alterations, corrections or adjustments to the refrigeration/air conditioning plant and associated equipment
- correct sequential installation of all components
- procedures for checking refrigeration systems for leaks
- methods of fixing/fastening and locating/holding the components

- procedures for checking refrigeration/air conditioning plant and associated equipment prior to start-up
- procedures for adjusting the refrigeration/air conditioning plant and associated equipment to specification
- codes and regulations relevant to the refrigeration/air conditioning industry, including environmental, ozone and greenhouse substance legislation.

Assessment Conditions

- Assessors must:
 - have vocational competency in installing refrigeration and air conditioning plant and equipment 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>