

Australian Government

Assessment Requirements for MEM23146 Contribute to the design of industrial refrigeration systems

Release: 1

Assessment Requirements for MEM23146 Contribute to the design of industrial refrigeration systems

Modification History

Release 1. Supersedes and is equivalent to MEM23146A Contribute to the design of industrial refrigeration 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 and include:

- identifying and interpreting refrigeration codes and regulations, drawings, specifications and client requirements appropriate to the design task
- implementing work health and safety (WHS) procedures and practices including the use of risk control measures
- · demonstrate the use of software tools related to designing industrial refrigeration systems
- contributing to the design of industrial refrigeration systems on at least two occasions including using standard manufactured components and piping
- adhering to design specifications
- documenting system design and compliance on at least two occasions
- · communicating technical and procedural requirements to others
- dealing with unexpected situations
- documenting technical information and designs in accordance with procedures.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

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:

- WHS requirements
- appropriate personnel to consult
- standards and codes of practice
- design criteria
- moderate and low temperature industrial refrigeration systems
- multiple evaporators and multiple compressors
- indirect refrigeration systems
- flooded systems
- cryogenic systems
- basic control sequences
- environmental requirements

- organisational procedures
- resource and equipment requirements.
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Assessment Conditions

- Assessors must:
 - have vocational competency in contributing to the design of industrial refrigeration 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 that cover all aspects of workplace performance, including environment, task skills, task 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.

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Links

Companion Volume Implementation Guides are available on VETNet https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2