



Australian Government

**Assessment Requirements for MEM234030
Provide specialised technical and
engineering guidance to other technical
employees**

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Modification History

Release 1. Supersedes and is equivalent to MEM234030A Provide specialised technical and engineering guidance to other technical employees.

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 engineering-related situations that require referral for expert assistance
- identifying and establishing any risks or consequences for advice offered
- offering advice that takes into account the engineering operations and procedures of the organisation, work health and safety (WHS) requirements, the discipline area, and accepted engineering ethical practice, on at least two occasions
- identifying situations where modelling, calculations or other investigations should occur before advice is offered
- applying verification procedures to engineering solutions in own area of expertise on at least two occasions
- assisting individuals and teams in setting performance targets
- advising on budgeting and financial management of engineering activities on at least two occasions.

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:

- principles of engineering as applied by designers in own area of expertise
- normal planning and scheduling approaches to engineering operations and tasks
- relationship of levels of practice in own engineering discipline including situations where professional engineering, engineering technologist and engineering associate assistance or decision-making is appropriate
- situations where mathematics, including statistics, calculus or other advanced mathematics, must be used by to generate solutions to engineering problems, as well as situations where professional or other expert assistance should be accessed
- structure, roles and capabilities of the engineering workforce in the organisation

- interactions between engineering technologies and business operations, including impact of engineering on meeting client, employee, shareholder, regulatory and community expectations of the organisation
- regulatory and WHS responsibilities of technical and engineering workforce of the organisation
- administrative, human resources (HR) and other support services available to technical and engineering staff in the organisation.
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Assessment Conditions

- Assessors must:
 - have vocational competency in providing specialised technical and engineering guidance 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 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.
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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>