



Australian Government

**Assessment Requirements for MEM48028
Determine corrosion prevention strategies
for metal and alloys**

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSATCM517A Determine corrosion prevention strategies for metal and alloys.

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:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- selecting appropriate metallurgical principles to reduce corrosion on at least two occasions
- applying metallurgical principles to manufacturing, engineering and structural situations
- referring solutions to the original aim of the application
- quoting solutions in appropriate units using appropriate significant figures
- quoting limitations of corrosion prevention or minimisation strategies.

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:

- safe work practices and procedures
- sources of information
- metallurgical principles and their limitations
- methodology of corrosion investigations
- corrosion principles and characteristics
- forms of corrosion
- corrosion (mechanism of oxide film growth) at elevated temperatures
- instruction procedures for implementing corrosion prevention or minimisation strategy.
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Assessment Conditions

- Assessors must:
 - have vocational competency in determining corrosion prevention strategies for metal and alloys 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 found in VETNet -

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