



Australian Government

Assessment Requirements for MEM48014 Recommend a refractory for an application

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSATCM503A Recommend a refractory for an application.

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
- applying principles to determine the pH of metallurgical slags
- selecting appropriate refractories on at least two occasions for an application
- selecting appropriate method of refractory installation and repair on at least two occasions
- identifying root causes of refractory failures.

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
- metals and their properties and operating temperatures
- furnace operations
- refractory materials including:
 - purposes
 - common defects
 - installation
 - fixing techniques
- limitations of refractories
- modes of refractory installation.
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Assessment Conditions

- Assessors must:
 - have vocational competency in recommending a refractory for an application 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 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 suitable access to an operating plant or equipment that allows for appropriate and realistic simulation and documentation including relevant workplace procedures, industry codes and standards.
- 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>