



Australian Government

Assessment Requirements for MEM48013 Identify and select equipment for mineral and chemical processing plants

Release: 1

Assessment Requirements for MEM48013 Identify and select equipment for mineral and chemical processing plants

Modification History

Release 1. Supersedes and is equivalent to MSATCM502A Identify and describe equipment for mineral and chemical processing plants.

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 scientific principles to suit mineral processing and metals production applications on at least two occasions
- applying scientific principles to particular processing situations
- referring solutions to the original aim of the application
- communicating solutions in appropriate units using appropriate significant figures
- communicating limitations of solutions due to assumptions, scientific principles and techniques used
- presenting solutions referring to the original aim of the application 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:

- safe work practices and procedures
- sources of information
- purpose of equipment used in mineral and chemical processing plants
- basic scientific principles, their use and limitations
- basic mineral and chemical processing techniques and technologies including software and hardware associated with implementing scientific principles in mineral and chemical processing situations related to metals production
-

Assessment Conditions

- Assessors must:

- have vocational competency in identifying and selecting equipment for mineral and chemical processing plants 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.
-

Links

Companion Volume implementation guides are found in VETNet -

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