



Australian Government

Assessment Requirements for MEM22007 Manage environmental effects of engineering activities

Release: 1

Assessment Requirements for MEM22007 Manage environmental effects of engineering activities

Modification History

Release 1. Supersedes and is equivalent to MEM22007A Manage environmental effects of engineering activities.

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
- researching and reporting on environmental case studies
- producing an inventory of existing environmental conditions and documenting findings of the initial environmental assessment
- identifying stakeholders' environmental expectations and integrating those expectations with the overall outcomes of the operation or project and communicating the expected outcomes to stakeholders
- documenting variations between expected and current environmental status on at least two occasions and implementing strategies for improving outcomes of the operation or project
- evaluating available options and implementing selected sustainable development options on at least two occasions
- developing environmental management plan, monitoring the implementation, collecting data and reviewing and evaluating implementation 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
- environmental conditions of the relevant workplace, process, operation or procedure
- procedures for documenting environmental conditions
- applicable environmental legislation and regulations
- legislative and regulatory reporting and recording requirements
- tests required to establish environmental conditions
- options for environmental improvement within engineering activities
- concept and options of sustainable development and criteria for assessing the feasibility of available options

- risks and priorities associated with sustainable development
- strategies to implement sustainable development options
- procedures for communicating sustainable development options to stakeholders
- strategies to implement environmental management plans
- data necessary to evaluate the implementation of the environmental management plan
- procedures for collecting and documenting environmental data
- benchmarks against which implementation strategies can be evaluated.
-

Assessment Conditions

- Assessors must:
 - have vocational competency in managing environmental effects of engineering activities 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>