



Australian Government

Assessment Requirements for MEM18016 Analyse plant and equipment condition monitoring results

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM18016 Analyse plant and equipment condition monitoring results (Release 1).

Release 1. Supersedes and is equivalent to MEM18016B Analyse plant and equipment condition monitoring results.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- obtaining results of condition monitoring of plant and equipment and examining and analysing records/graphs/results and identifying areas of concern
- determining indications of malfunctions or impending failure by performing calculations to analyse condition monitoring data
- reporting recommendations to the appropriate authority in accordance with SOPs.

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 and use of personal protective equipment (PPE)
- operational specifications of the plant/equipment being monitored and any trends and/or deviations
- numerical operations and calculations/formulae for data analysis within the scope of this unit
- procedures for reporting the analysis of condition monitoring data
- previous history of the plant/equipment being monitored
- relevant legislative requirements
- recommendations and reasons with respect to action to be taken
- expected effect of the recommendations on the operational performance of the plant/equipment
- procedures for reporting recommendations and authority/person to whom the recommendations are to be made.

Assessment Conditions

- Assessors must:
 - have vocational competency in analysing plant and equipment conditioning monitoring results 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.
- Assessment must occur in a functioning workplace. Where assessment in the workplace would be unsafe, impractical or threatens the environment, assessment must occur in a sufficiently rigorous simulated environment that reflects the circumstances that would be experienced in a functioning workplace. Assessment must cover all aspects of workplace performance, including 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>