



Australian Government

Department of Education, Employment and Workplace Relations

MEM18010C Perform equipment condition monitoring and recording

Release: 2

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Modification History

Single band identifier removed to clarify dual status

Unit Descriptor

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| Unit descriptor | This unit covers undertaking condition monitoring. |
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Application of the Unit

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| Application of the unit | <p>This unit applies where specialist monitoring activities are undertaken as part of a preventive maintenance or total productive maintenance plan or program. Work is undertaken autonomously or as part of a team environment. Monitoring is undertaken in workshop, laboratory or in situ environment; readings are undertaken to the accuracy of monitoring equipment limitations or to site specifications where applicable. Results are recorded/plotted to predetermined procedure and technique. All work and work procedures are undertaken to standard operating procedures and/or equipment manufacturers' recommendations. All work and work practices are undertaken to regulatory or legislative requirements.</p> <p>Where only routine maintenance checking and diagnostic skills are applied, other appropriate units should be accessed.</p> <p>Band:</p> <p>This unit has dual status and is to be regarded as both a Specialisation band A unit and Specialisation band B unit for progression to C5 (AQF level V).</p> <p>Unit Weight: 4</p> |
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

| Prerequisite units | | |
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| Path 1 | MEM09002B | Interpret technical drawing |
| | MEM12023A | Perform engineering measurements |
| | MEM18001C | Use hand tools |
| | MEM18002B | Use power tools/hand held operations |
| | MEM18055B | Dismantle, replace and assemble engineering components |

Employability Skills Information

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| Employability skills | This unit contains employability skills. |
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Elements and Performance Criteria Pre-Content

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| Elements describe the essential outcomes of a unit of competency. | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide. |
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Elements and Performance Criteria

| ELEMENT | PERFORMANCE CRITERIA |
|-----------------------------------|---|
| 1. Undertake condition monitoring | 1.1. Principles and methods of equipment condition monitoring are understood and applied 1.2. Appropriate condition monitoring technique is selected to achieve required outcomes. 1.3. Checks are undertaken correctly, safely and to standard operating procedures. 1.4. Results are plotted and deviations from specification are reported to appropriate authority and recorded. |

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Look for evidence that confirms skills in:

- reading, interpreting and following information on job instructions, specifications, standard operating procedures, charts, lists, drawings and other applicable reference documents
- planning and sequencing operations
- checking and clarifying task-related information
- applying correct principles for monitoring
- selecting appropriate technique for the situation
- following standard operating procedures
- recording results and preparing and submitting deviation reports

Required knowledge

Look for evidence that confirms knowledge of:

- the application of principles and methods for a variety of situations
- appropriate records for a variety of situations
- hazards and control measures associated with equipment monitoring, including housekeeping
- use and application of personal protective equipment
- safe work practices and procedures

Evidence Guide

| EVIDENCE GUIDE | |
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| <p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p> | |
| <p>Overview of assessment</p> | <p>A person who demonstrates competency in this unit must be able to perform equipment condition monitoring and recording. Competency in this unit cannot be claimed until all prerequisites have been satisfied.</p> |
| <p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p> | <p>Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.</p> |
| <p>Context of and specific resources for assessment</p> | <p>This unit may be assessed on the job, off the job or a combination of both. Where assessment occurs off the job, i.e. the candidate is not in productive work, an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.</p> <p>This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with equipment condition monitoring and recording or other units requiring the exercise of the skills and knowledge covered by this unit.</p> |
| <p>Method of assessment</p> | <p>Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.</p> |

EVIDENCE GUIDE

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| Guidance information for assessment | |
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Range Statement**RANGE STATEMENT**

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Technique may include

Built-in systems (software and site displays), vibration monitors, infra-red and ultraviolet non-destructive testing

Unit Sector(s)

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| Unit sector | |
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Co-requisite units

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| Co-requisite units | |
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Competency field

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| Competency field | Maintenance and diagnostics |
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