



Australian Government

PMASUP345 Monitor vibration

Release: 1

PMASUP345 Monitor vibration

Modification History

Release 1. Supersedes and is equivalent to PMASUP345A Monitor vibration

Application

This unit of competency covers the skills and knowledge required to undertake specialist monitoring activities as part of a preventive maintenance or total productive maintenance plan or program.

This unit of competency applies to monitoring that is undertaken in a workshop, laboratory or in situ environment. Readings are undertaken to the accuracy of monitoring equipment limitations or to site specifications where applicable. The results are typically provided to an engineer or other expert for interpretation and action.

This unit of competency applies to operators who are required to select appropriate monitoring methods and equipment, undertake checks according to procedures, and identify and report deviations from specifications.

This unit of competency applies to an individual working alone or as part of a team or group and working in liaison with other shift team members and the control room operator, as appropriate.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Competency Field

Support

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Prepare for monitoring activities	1.1	Identify and confirm specifications
		1.2	Select appropriate condition monitoring technique
		1.3	Identify standard operating procedures (SOPs)

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| | | 1.4 | Identify and control hazards |
| 2 | Undertake condition monitoring | 2.1 | Conduct equipment condition monitoring |
| | | 2.2 | Undertake checks correctly, safely and to SOPs |
| | | 2.3 | Record results and identify deviations from specifications |
| | | 2.4 | Report deviations to appropriate authority |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used, and include one or more of the following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

All operations to which this unit applies are subject to stringent health, safety and environment (HSE) requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and HSE requirements, the HSE requirements take precedence.

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, include one or more of the following:

- emergency procedures
- work instructions
- SOPs
- safe work method statements (SWMS)
- formulas/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant

Hazards

Hazards include one or more of the following:

- electricity
- gas
- gases and liquids under pressure
- structural hazards
- industrial (machinery, equipment and product)
- equipment or product mass
- noise, rotational equipment or vibration
- plant services (steam, condensate and cooling water)
- limited head spaces or overhangs
- working at heights, in restricted or confined spaces, or in environments subjected to heat, dusts or vapours
- flammability and explosivity
- hazardous products and materials
- unauthorised personnel
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- extreme weather
- other hazards that might arise

Monitoring equipment

Monitoring equipment includes one or more of the following:

- built-in systems (software and site displays)
- portable meters or devices
- vibration monitors
- infra-red and ultra-violet, and non-destructive testing

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875>