



Australian Government

RIISAM602E Establish and maintain maintenance management system for mechanical plant and equipment

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to establish and maintain maintenance management system for mechanical plant and equipment in the resources and infrastructure industries.

It applies to those who work in management roles. They are generally responsible for the outcomes of others and contribute to the development of solutions to non-routine problems.

Licensing, legislative and certification requirements may apply to this unit and can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to develop the maintenance management system	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to establish and maintain maintenance management system for mechanical plant and equipment 1.3 Identify, address and establish procedures to manage potential risks, hazards and environmental issues, determine acceptable levels of risk and implement control measures 1.4 Liaise with relevant stakeholders and gain support for maintenance management system 1.5 Develop and implement maintenance strategies and systems for plant and equipment 1.6 Identify and confirm availability of required resources 1.7 Communicate and coordinate activities with others prior to, during and on completion of the work activity

ELEMENT	PERFORMANCE CRITERIA
	1.8 Identify training needs for personnel involved, and develop and implement training plans within scope of own role
2. Implement and monitor the maintenance management system	2.1 Develop and implement procedures for inspection and maintenance schedules 2.2 Communicate and confirm procedures and processes to relevant stakeholders 2.3 Design and implement maintenance management schedules according to workplace procedures 2.4 Maintain maintenance written records and reports 2.5 Monitor effectiveness of the maintenance management system and workplace practices 2.6 Monitor compliance with the schedules, report and rectify variances and implement corrective actions 2.7 Analyse, interpret and confirm maintenance reports and system output information 2.8 Identify defective components, sub-assemblies and design faults, coordinate repair or replacement 2.9 Monitor effective use of resources, recommend and implement control measures for improvement
3. Audit, review and report on the maintenance management system	3.1 Audit the maintenance management plan and identify control measures for improvement according to workplace procedures 3.2 Implement, communicate and monitor improvement modifications 3.3 Process documentation and written reports on system modifications

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Writing	Prepares specific information that complies with a range of regulatory requirements, using sector-specific terminology
Oral communication	Conveys information and requirements clearly, and listens carefully
Reading	Identifies and interprets relevant information from workplace procedures, documentation and regulations
Problem solving	Identifies a range of factors that impact on a decision, including own values and principles, the needs, power, values, beliefs and assumptions of stakeholders

Unit Mapping Information

Supersedes and is equivalent to RIISAM602D Establish and maintain maintenance management system for mechanical plant and equipment.

Links

Companion Volume implementation guides is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIISAM602E Establish and maintain maintenance management system for mechanical plant and equipment

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- establish and maintain maintenance management system for mechanical plant and equipment on at least two occasions, including:
 - planning and coordinating work activities
 - interpreting manufacturer instructions
 - facilitating communication meetings
 - analysing mechanical maintenance data
 - identifying training needs and preparing training plans
 - surveying maintenance
 - implementing and auditing maintenance management systems.

During the above, the candidate must:

- locate and apply relevant documentation, policies and procedures and confirm that the work activity is compliant
- implement the requirements, procedures and techniques for establishing and maintaining maintenance management system for mechanical plant and equipment, including:
 - accessing, interpreting and applying technical information
 - assessing risks and consequences of mechanical systems
 - developing procedures for management of mechanical maintenance systems
 - applying information management systems managing work in confined spaces
- work effectively with others to establish and maintain maintenance management system for mechanical plant and equipment in a way that meets all required outcomes, including:
 - preparing written reports communicating policies and procedures
- communicate clearly and concisely with others to receive and clarify work instructions.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies, procedures and documentation required to establish and maintain maintenance management system for mechanical plant and equipment, including:
 - hazard and risk identification and management
 - statutory compliance
 - work health and safety
 - environmental issues
 - policy management
 - equipment maintenance
- principles and techniques for maintenance techniques, processes and procedures, including:
 - specifications from mechanical systems
 - workplace training methods
 - maintenance surveys
- principles and techniques for providing leadership in the workplace
- principles and techniques for identifying relevant hazards and emergencies
- techniques for coordinating and communicating job activities with others.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment related to establish and maintain maintenance management system for mechanical plant and equipment
 - relevant documentation
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the Companion Volume Implementation Guide located on VETNet.

******Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

******* While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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