



Australian Government

RIISAM501E Implement and maintain the site plant, equipment and infrastructure maintenance plans

Release: 1

RIISAM501E Implement and maintain the site plant, equipment and infrastructure maintenance plans

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 implement and maintain the site plant, equipment and infrastructure maintenance plans in the resources and infrastructure industries.

It applies to those working in management roles. They generally work in teams and have some responsibility for the outcomes of others.

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 a maintenance program	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to implement and maintain the site plant, equipment and infrastructure maintenance plans 1.3 Identify, address and report potential risks, hazards and environmental issues and implement control measures according to workplace procedures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Identify, interpret and confirm maintenance needs of plant, equipment and infrastructure 1.6 Prepare a maintenance program, in consultation with other stakeholders 1.7 Identify and confirm availability of required resources for the work

ELEMENT	PERFORMANCE CRITERIA
	activities 1.8 Identify and obtain approvals for implementation of maintenance plan 1.9 Identify training needs of individuals and work groups, and prepare training plans 1.10 Communicate and coordinate activities with others prior to, during and on completion of the work activity
2. Implement maintenance program	2.1 Communicate the maintenance plan to supervisors and managers, explain and clarify objectives and seek input for it's the implementation 2.2 Ensure maintenance instructions are in place for the work activity and obtain permits for isolation before commencement 2.3 Ensure return to service commissioning and hand over system is in place 2.4 Arrange on-line maintenance and outage schedules to minimise impact on operations according to workplace procedures
3. Monitor, adjust and report on program	3.1 Monitor plant performance and use information to predict failure events and need for maintenance 3.2 Ensure procedures are in place to review plant or component failures to assess if redesign of components is required 3.3 Ensure records of maintenance, monitoring, breakdown, major plant modifications, programmed activities and costs are maintained 3.4 Monitor and report on any environmental, safety or other event outside acceptable standards 3.5 Analyse maintenance program performance and identify recommendations for improvement 3.6 Implement approved improvements to program 3.7 Complete and submit written reports on plant, equipment and infrastructure maintenance according to workplace procedures

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
Reading	Identifies and interprets 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

SKILL	DESCRIPTION
	assumptions of stakeholders

Unit Mapping Information

Supersedes and is equivalent to RIISAM501D Implement and maintain the site plant, equipment and infrastructure maintenance plan.

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 RIISAM501E Implement and maintain the site plant, equipment and infrastructure maintenance plans

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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:

- implement and maintain the site plant, equipment and infrastructure maintenance plans on at least two occasions, including:
 - identifying and making available the required resources
 - developing online maintenance and outage schedules
 - predicting failure events and maintenance needs from plant monitoring information
 - monitoring and reporting on events outside of acceptable standards
 - identifying maintenance needs
 - preparing financial and other resource estimates and budgets
 - ensuring organisation plant, equipment and infrastructure are maintained
 - identifying and assessing training needs to prepare training plans
 - analysing maintenance program performance and identifying and implementing improvements.

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 implementing and maintaining the site plant, equipment and infrastructure maintenance plans
- work effectively with others to implement and maintain the site plant, equipment and infrastructure maintenance plans in a way that meets all required outcomes
- 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 implement and maintain the site plant, equipment and infrastructure maintenance plans, including:
 - hazard and risk identification and management
 - statutory compliance
 - work health and safety
 - environmental issues
 - policy management
 - equipment maintenance
- principles and techniques for:
 - workplace training strategies
 - understanding maintenance programs planning techniques
 - providing leadership in the workplace
 - 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 implementing and maintaining the site plant, equipment and infrastructure maintenance plans
 - 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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