



Australian Government

RIISAM601D Establish and maintain plant, equipment and infrastructure maintenance system

Release: 2

RIISAM601D Establish and maintain plant, equipment and infrastructure maintenance system

Modification History

Release	Comment
1	This unit replaces RIISAM601A Establish and maintain plant, equipment and infrastructure maintenance system
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to establish and maintain plant, equipment and infrastructure maintenance systems in the Resources and Infrastructure Industries.

This unit is appropriate for those working in management roles.

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

Elements and Performance Criteria

1. Plan and prepare to establish and maintain installation and commissioning procedures	1.1 Access, interpret and apply service and maintenance documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 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 Ensure the integration of new and existing tools, plant, equipment and processes is planned to minimise downtime 1.5 Design and implement safe operating procedures and systems 1.6 Design and implement plant and equipment installation and commissioning/re-commissioning procedures 1.7 Design and implement infrastructure construction/fabrication and commissioning/re-commissioning procedures
---	--

	1.8 Identify training needs of individuals and work groups, develop and implement training plans Develop, implement and maintain emergency response and evacuation plans and
2. Develop systems for the maintenance of plant and equipment	2.1 Develop, review and gain approval for the implementation of plant and equipment maintenance procedures and systems 2.2 Develop and implement operational procedures for plant and equipment usage 2.3 Develop and implement plant and equipment maintenance systems documentation 2.4 Design and implement procedures for reviewing and modifying maintenance work processes 2.5 Process written records and reports
3. Establish and maintain systems for the maintenance of worksite infrastructure	3.1 Develop, review and gain approval for the implementation of infrastructure maintenance procedures and systems Develop and maintain operational procedures for worksite infrastructure usage 3.2 Develop and implement infrastructure maintenance systems documentation 3.3 Design and implement procedures for reviewing and modifying work processes 3.4 Process written records and reports
4. Establish and maintain systems for audit and review of maintenance system	4.1 Develop, implement and maintain procedures to evaluate and confirm plant, equipment and infrastructure maintenance compliance are developed and implemented 4.2 Ensure future plant, equipment and infrastructure systems and equipment requirements are identified, assessed and incorporated into planning processes 4.3 Develop and implement procedures to confirm the currency and compliance of plant, equipment and infrastructure maintenance and safety standards 4.4 Develop and implement systems for recording and reporting plant, equipment and infrastructure information 4.5 Design and implement procedures for incorporating feedback into the audit/review system 4.6 Design and implement procedures to confirm the currency, relevance and compliance of the training program 4.7 Ensure procedures for response to instances of non-compliance or other discrepancies or deficiencies are developed and implemented

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIISAM601B Establish and maintain plant, equipment and infrastructure maintenance system

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIISAM601D Establish and maintain plant, equipment and infrastructure maintenance system

Modification History

Release	Comment
1	This unit replaces RIISAM601A Establish and maintain plant, equipment and infrastructure maintenance system
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient establishment and maintenance of the plant, equipment and infrastructure maintenance systems including:
 - accessing, interpreting and applying technical information
 - ensuring plant, equipment and infrastructure are maintained
 - identifying, assessing and addressing training needs
- works effectively with others to establish and maintain plant, equipment and infrastructure maintenance systems that meets all the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to coordinate work activities
 - preparing written reports communicating policies and procedures
- demonstrates completion of establishment and maintenance of the plant, equipment and infrastructure maintenance systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - developing and obtaining approval for the organisation's maintenance policy and strategies
 - ensuring operational procedures for plant and equipment usage are developed

- ensuring maintenance systems documentation is developed
- ensuring procedures for reviewing and modifying work processes are developed and implemented
- identifying training needs and preparing training plans

Knowledge Evidence

The candidate must demonstrate knowledge of the following in establishing and maintaining plant, equipment and infrastructure maintenance system through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - hazard and risk identification and management
 - statutory compliance
 - work health and safety
 - environmental issues
 - policy management
 - equipment maintenance
- maintenance programs planning techniques
- providing leadership in the workplace
- specifications for fixed plant and infrastructure
- audit processes
- training programs
- maintenance surveys techniques
- work planning and coordination techniques

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated 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; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 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.	

*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 frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

Links

Companion Volume implementation guides are found in VETNet -

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