



Australian Government

RIISAM502D Manage general drilling equipment maintenance

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIISAM502A Manage general drilling equipment maintenance
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 manage general drilling equipment maintenance in Drilling.

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.

Unit Sector

Drilling.

Elements and Performance Criteria

1. Plan and prepare for managing drilling equipment maintenance	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 report potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Communicate and coordinate activities with others prior to, during and on completion of the work activity
2. Manage movement of stock	2.1 Identify plant, tools and equipment required for equipment maintenance 2.2 Cost and plan delivery of stock, parts and consumables from

	suppliers 2.3 Prepare and maintain checklist of all materials and spares 2.4 Arrange for materials and spare parts to be stored safely and securely 2.5 Identify wear to parts and relative frequency of replacement and determine replacement costs 2.6 Develop and implement procedures for issue, return and recording of stock movement 2.7 Maintain written records of parts usage
3. Plan and organise drilling equipment maintenance and overhauls	3.1 Identify type and frequency of routine maintenance tasks 3.2 Coordinate and communicate equipment maintenance and service, ensuring downtime is minimised 3.3 Monitor performance of routine maintenance schedules, identify and rectify variances 3.4 Investigate and arrange alternate suppliers for obtaining back-up or replacement equipment/stock 3.5 Maintain written maintenance records
4. Evaluate new and used equipment	4.1 Test materials and equipment to ensure continuing serviceability 4.2 Monitor availability of new and used equipment 4.3 Evaluate costs/benefits of replacing equipment, and develop recommendations for the purchase/lease of replacement equipment 4.4 Maintain written records and produce reports
5. Maintain inventories of all items needed on site	5.1 Monitor individual machine records 5.2 Implement a stock control system to record stock levels, usages and maintain economic stock levels 5.3 Maintain inventory levels, calculate/estimate requirements, place orders for stock and equipment in advance and ensure availability 5.4 Monitor performance of stock control system, identify and rectify variances 5.5 Use approved requisition/purchasing procedures to order parts and supplies 5.6 Implement and maintain a hazardous substances/chemicals register 5.7 Ensure resources/stock required for servicing is available 5.8 Implement procedures to prevent/minimise waste or damage to spare parts in storage 5.9 Report any problems with stock control or availability of parts to

	relevant personnel
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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

RIISAM502C Manage general drilling equipment maintenance

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 RIISAM502D Manage general drilling equipment maintenance

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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 managing of general drilling equipment maintenance including:
 - monitoring and maintaining stock levels
 - developing a cost/benefit analysis for requisition of replacement equipment
 - ordering equipment and consumables
 - monitoring routine maintenance schedules
 - implementing and maintaining a hazardous substance register
 - planning and preparing for equipment maintenance; managing movement of stock; planning and organising maintenance and overhauls; evaluating new and used equipment; and maintaining inventories of all items needed on site
- works effectively with others to undertake and complete general drilling equipment maintenance 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
- demonstrates completion of managing of general drilling equipment maintenance that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - costing and planning delivery of stock, parts and consumables

- ordering stock and scheduling equipment maintenance
- develop and implementing procedures for issue, return and recording of stock movement
- testing materials and equipment
- implementing, maintaining and reviewing an inventory control system

Knowledge Evidence

The candidate must demonstrate knowledge in managing general drilling equipment maintenance 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
- identifying wear parts and relative frequency of replacement
- identifying purpose of stock control

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 must be assessed in the context of this sector's work environment; 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

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