



Australian Government

RIISAM502E Manage general drilling equipment maintenance

Release: 1

RIISAM502E Manage general drilling equipment maintenance

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 manage movement of stock, plan and organise drilling equipment maintenance and overhauls, evaluate new and used equipment, and maintain inventories of items used on site in drilling.

It applies to those working in management roles. They generally perform tasks involving a high level of autonomy and that require the application of significant judgement in planning and determining the selection of equipment, roles and techniques for themselves and others. They are required to demonstrate the application of a broad range of technical, managerial, coordination and planning skills.

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

Unit Sector

Drilling.

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 for managing drilling equipment maintenance	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply service and maintenance documentation and confirm work activity is compliant 1.3 Identify and minimise environmental issues and potential hazards, and assess and address risks within scope of own role and according to workplace procedures 1.4 Select and wear personal protective equipment required for work activity 1.5 Communicate with other personnel at site according to work

ELEMENT	PERFORMANCE CRITERIA
	requirements and confirm briefings and handover details are communicated and received
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 according to work requirements 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 according to workplace procedures
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 according to workplace procedures
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 according to work requirements 4.4 Maintain written records and produce reports according to workplace procedures
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

ELEMENT	PERFORMANCE CRITERIA
	parts and supplies 5.6 Implement and maintain a hazardous substances/chemicals register 5.7 Confirm 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

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 critical information from the organisational plan, work programs and lease details

Unit Mapping Information

Supersedes and is equivalent to RIISAM502D Manage general drilling equipment maintenance.

Links

Companion Volume implementation guides is found on VETNet -

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