



Australian Government

RIISAM215E Carry out drilling industry operational maintenance

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 perform drilling checks and maintenance, including of all downhole tools, other drilling consumables, equipment and machinery.

It applies to those working in operational roles. They generally perform tasks involving a broad range of skilled applications in a wide variety of contexts, which may involve some discretion and judgement in selecting equipment, services and contingency measures.

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 to carry out drilling Industry operational maintenance	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply drilling 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

ELEMENT	PERFORMANCE CRITERIA
	work requirements and confirm briefings and handover details are communicated and received 1.6 Obtain and interpret emergency procedures and identify steps required in case of fires, accidents and other emergencies
2. Carry out pre-drilling checks and maintenance	2.1 Carry out predrilling checks according to manufacturer specifications 2.2 Complete workplace and/or site documentation according to workplace procedures 2.3 Access and apply lubrication schedule according to workplace procedures and manufacturer specifications 2.4 Top up fluid levels and bleed lines according to work requirements and manufacturer specifications 2.5 Check filters and clean/replace as required 2.6 Check security of all circulation systems 2.7 Ensure cabin and windscreen are clean and seat belts and windscreen washer function
3. Perform machine checks	3.1 Carry out equipment inspection, servicing and lubrication according to manufacturer specifications 3.2 Identify faults or potential faults 3.3 Observe isolation/tag out/lock out procedures 3.4 Identify, record and/or report requirement for repair or maintenance and critical timeline for rectification 3.5 Monitor effectiveness of maintenance performed
4. Maintain all down hole tools and other drilling consumables	4.1 Carry out component maintenance according to workplace procedures and manufacturer specifications 4.2 Maintain and store tools and consumables according to workplace procedures
5. Perform machinery maintenance	5.1 Access and apply scheduled machinery servicing, maintenance and overhauls 5.2 Use tag out/lock out when servicing 5.3 Carry out minor servicing of equipment according to manufacturer specification 5.4 Carry out routine inspection, servicing, lubrication and housekeeping tasks according to workplace procedures 5.5 Read and apply instructions on maintenance procedures, lubrication tasks and filter change/service 5.6 Identify, record and replace worn parts according to workplace procedures and manufacturer specifications 5.7 Conduct diagnostic and troubleshooting techniques and

ELEMENT	PERFORMANCE CRITERIA
	take remedial action 5.8 Identify operational faults in and maintain hydraulic systems 5.9 Report service and repair requirements and take remedial action according to workplace procedures
6. Perform equipment and machinery field repairs	6.1 Isolate and rectify equipment faults according to manufacturer specifications 6.2 Identify extent of repair needed and obtain spare parts 6.3 Identify, select and use tools required for maintenance and repairs 6.4 Identify and return re-usable parts/components or accessories 6.5 Review equipment and re-set in response to site conditions 6.6 Identify system faults and formulate appropriate responses within agreed timelines 6.7 Maintain service records according to workplace procedures 6.8 Dismantle, assess, service, repair, reassemble and test drill components according to manufacturer specifications

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

Unit Mapping Information

Supersedes and is equivalent to RIISAM215D Carry out drilling industry operational maintenance.

Links

Companion Volume implementation guides is found on VETNet -

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

