



Australian Government

RIISAM314D Manage oil and gas drilling equipment maintenance

Release: 2

RIISAM314D Manage oil and gas drilling equipment maintenance

Modification History

Release	Comment
1	This unit replaces RIISAM314A Manage oil and gas 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 oil and gas drilling equipment maintenance in Drilling (Oil/Gas).

This unit is appropriate for those working in operational roles.

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

Unit Sector

Drilling (Oil/Gas)

Elements and Performance Criteria

1. Plan and prepare for oil and gas 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 hazards, risks and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Obtain and interpret emergency procedures and be ready for fire/accident/emergency 1.6 Resolve coordination requirements with others prior to commencing and during work activities
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2. Check new and used equipment	2.1 Test materials and equipment regularly 2.2 Monitor availability of new and used equipment 2.3 Evaluate costs/benefits of replacing equipment, and recommend/implement the purchase/lease of replacement equipment 2.4 Check stock levels and order spare parts and consumables 2.5 Maintain communication between operators, company and suppliers 2.6 Check manufacturer's manuals/company procedures for currency and relevancy
3. Organise maintenance and overhauls	3.1 Determine type and frequency of maintenance tasks 3.2 Organise equipment maintenance and service to ensure availability is maintained and downtime minimised 3.3 Monitor performance of maintenance schedules and take corrective action if necessary 3.4 Arrange sources for obtaining back up or replacement equipment 3.5 Allocate personnel to carry out maintenance tasks

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

RIISAM314B Manage oil and gas 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 RIISAM314D Manage oil and gas 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 evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient management of oil and gas drilling equipment maintenance including:
 - apply legislative, organisation and site requirements and procedures
 - apply equipment/consumables order procedures
 - apply reporting procedures
- works effectively with others to undertake and complete oil and gas drilling equipment maintenance that meets all of 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 resolve coordination requirements prior to commencing and during work activities
- demonstrates completion of the management of oil and gas drilling equipment maintenance that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - testing materials and equipment
 - monitoring availability of new and used equipment
 - applying cost benefit analysis
 - managing stock levels and ordering spare parts and consumables

- checking manufacturer's manuals/company procedures for currency and relevancy
- checking new and used equipment
- planning and organising maintenance and overhauls

Knowledge Evidence

The candidate must demonstrate knowledge in managing oil and gas drilling equipment maintenance through:

- accessing, interpreting and applying legislative, organization and site requirements and procedures for:
- identifying and managing risks
 - identifying, addressing and reporting environmental issues
 - setting up work activity
 - work health and safety
 - identifying and correcting operational faults
- identifying equipment and ancillary attachment characteristics, technical capabilities and limitation
- identifying wear parts and relative frequency of replacement
- describing purpose of stock control
- interpreting financial transactions (e.g. cash flow, cost benefit analysis)

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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