



Australian Government

RIIOGD501F Manage rig operations

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 develops the skills and knowledge required to manage rig operations in drilling and well servicing. It prepares individuals to establish lease and communicate and report outcomes.

It applies to those working in supervisory roles. They generally perform tasks involving a high level of autonomy which 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 rig operations	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply rig operations 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 to the work activities 1.5 Confirm personnel coordination requirements at the site are met

ELEMENT	PERFORMANCE CRITERIA
	prior to commencement of work activities 1.6 Obtain copy of well program for next well prior to moving on to lease 1.7 Read and interpret well program and check all necessary contractor-supplied equipment availability and rectify anomalies 1.8 Check for casing discrepancies and obvious mistakes and take corrective action 1.9 Verbally communicate with company representative if changes are required to program 1.10 Inform others of all required or possible changes to program
2. Establish lease	2.1 Obtain lease details and locate and inspect lease 2.2 Inform construction company of lease details including all infrastructure arrangements 2.3 Make contact with owners and statutory bodies and confirm compliance with regulations 2.4 Establish, check and communicate directions to lease 2.5 Establish right-of-way to lease, identify and rectify potential problems and communicate to appropriate personnel, third parties and regulators 2.6 Establish camp location, check infrastructure and safety arrangements and rectify issues identified 2.7 Check and adjust supply sources and expendables to meet current requirements 2.8 Establish and monitor rubbish and waste arrangements for disposal according to environmental requirements
3. Communicate and report outcomes	3.1 Confirm lease establishment information with appropriate personnel, third parties and regulators and submit written reports 3.2 Review, update and implement contract information for pre-well preparation 3.3 Report new lease data to appropriate officers using correct reporting strategies 3.4 Review and amend shutdown procedures and communicate activity to relevant parties

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
Writing	Produces and completes workplace reports, including organisational procedures and using appropriate vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIIOGD501E Manage rig operations.

Links

Companion Volume implementation guides is found on VETNet -

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

Assessment Requirements for RIIOGD501F Manage rig operations

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- manage rig operations on at least two occasions, including:
 - establishing camp location and infrastructure
 - identifying issues, exploring options to resolve identified issues and implementing best solutions that resolve issues with rig operations
 - organising supplies and expendable requirements to maintain the life of the planned work activity
 - solving logistical problems to maintain access to supplies and resources for rig operations and employee welfare
 - establishing and reporting on new lease arrangements.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures for managing rig operations
- implement the requirements, procedures and techniques for the management of rig operations, including:
 - identifying, addressing and reporting potential hazards and risks
 - implementing emergency response plan and procedures
 - identifying, addressing and reporting environmental issues
 - checking all contractor-supplied equipment
- work with others to coordinate activities and resolve issues for rig operation to meet required outcomes, including:
 - preparing for and organising work activities to meet task requirements
 - communicating with others to receive and clarify work instructions
 - using a range of communication techniques and aids to advise others of work activity and exclusion zones

- using written and verbal communications to convey all activities and outcomes for rig operations to others.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies, procedures and established requirements for managing rig operations, including those for:
 - setting up for rig operations, including:
 - planning
 - programming
 - preparing
 - identifying and managing risks
 - environmental issues
 - site preparation and organisation
 - work health and safety
 - resource and supply requirements
 - camp planning and set-up
 - communication techniques relevant to work activities
 - carrying out rig loading
 - load spotting
 - rig up and shut down
 - lease arrangements and requirements.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to manage rig operations
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work 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.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII Companion Volume Implementation Guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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