



Australian Government

RIIOGD405E Carry out well control and blow out prevention 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 describes the skills and knowledge required to assess well control equipment and report and record faults, carry out well kill operations and conduct housekeeping activities.

It applies to those working in supervisory roles. They generally perform tasks involving a broad range of varied activities most of which are complex and non-routine and are responsible for the quantity and quality of the output of others.

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

Unit Sector

Coal mining

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 well control and blow out prevention (BOP)	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply well control and BOP documentation and confirm the 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 activities 1.5 Calculate kill mud weight, pressure losses, drill stem and annular volumes, maximum allowable annular surface pressure

ELEMENT	PERFORMANCE CRITERIA
	(MAASP) and initial and final circulating pressures 1.6 Identify, interpret and respond to early warning signs of kicks and well going under-balance while drilling 1.7 Recognise kick indicators and apply kick detection methods and responses
2. Assess well control equipment and report and record faults	2.1 Identify the purpose, use of and relationship between equipment, indicators, counters and detection systems to determine fitness of equipment for well control 2.2 Identify flow paths for normal drilling operations and well control 2.3 Identify and apply well-control testing procedures and principles 2.4 Demonstrate primary equipment failure well shut-in procedures
3. Carry out well kill operations	3.1 Brief crew on well control procedures 3.2 Access and apply pre-recorded information 3.3 Identify, read, interpret and record pressures and gauge information and undertake corrective action as required 3.4 Determine and apply well kill procedures according to work requirements and workplace procedures 3.5 Apply trip kill sheet data and well-closure procedure when dealing with influx and shutting in a well 3.6 Calculate hydrostatic head at specific depths and apply required procedures when observing loss of circulation 3.7 Identify, interpret and apply required tripping methods and tests 3.8 Identify, interpret and apply stripping methods 3.9 Identify, interpret and apply recording and reporting procedures according to workplace procedures 3.10 Manage and communicate with crew during a well control emergency
4. Conduct housekeeping activities	4.1 Clean, check, perform maintenance on and store plant, tools and equipment 4.2 Report issues identified with plant, tools and equipment

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 complex information from workplace procedures, documentation, legislation and regulations
Oral communication	Presents workplace procedures and technical instructions to others using sector-specific vocabulary

Unit Mapping Information

Supersedes and is equivalent to RIIOGD405D Carry out well control and blow out prevention.

Links

Companion Volume implementation guides is found on VETNet -

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