



**Australian Government**

# **RIOGD405D Carry out well control and blow out prevention**

**Release: 1**

## **RHOGD405D Carry out well control and blow out prevention**

### **Modification History**

Not applicable.

## Application

This unit describes a participant's skills and knowledge required to apply carry out well control and blow out prevention in Coal mining and Drilling.

This unit is appropriate for those working in supervisory roles.

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

## Unit Sector

- Coal mining
- Drilling
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## Elements and Performance Criteria

1 Plan and prepare to carry out well control and blow out prevention	<p>1.1 Access, interpret and apply well control and blow out prevention documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, read, interpret, clarify and confirm work requirements</p> <p>1.3 Identify, address and report potential hazards, risks and environmental issues and implement control measures</p> <p>1.4 Select and wear personal protective equipment appropriate to the work activities</p> <p>1.5 Calculate mud weight, pressure losses, drill stem and annular volumes, maximum allowable annular surface pressure (MAASP) and initial and final circulating pressures</p> <p>1.6 Identify, interpret and respond to the early warning signs of kicks and well going under-balance while drilling</p> <p>1.7 Recognise kick indicators and apply kick detection methods and responses</p>
2 Assess well control equipment and report and record faults	<p>2.1 Identify the purpose, use and relationship between equipment, indicators, counters and detection systems to determine fitness of equipment for well control.</p> <p>2.2 Identify flow paths for normal drilling operations and well control</p> <p>2.3 Identify and apply well-control testing procedures and principles</p> <p>2.4 Demonstrate primary equipment failure well shut-in procedures</p>
3 Carry out well kill operations	<p>3.1 Brief crew on well control procedures</p> <p>3.2 Access and apply pre-recorded information</p>

	<p>3.3 Identify, read, interpret and record pressures and gauge information and undertake corrective action</p> <p>3.4 Determine and apply well kill procedures</p> <p>3.5 Demonstrate correct application of trip kill sheet data and well-closure procedure when dealing with influx and shutting in a well</p> <p>3.6 Calculate hydrostatic head at specific depths, and apply correct procedure when observing loss of circulation</p> <p>3.7 Identify, interpret and apply correct tripping methods and tests</p> <p>3.8 Identify, interpret and apply stripping methods</p> <p>3.9 Identify, interpret and apply recording and reporting procedures</p> <p>3.10 Manage and communicate with crew during a well control emergency</p>
4 Conduct housekeeping activities	<p>4.1 Clean, check, maintain and store plant, tools and equipment</p> <p>4.2 Report issues identified with plant, tools and equipment</p>

## 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

No equivalent Unit

## Links

JKIM V1 - <http://www.skillsdmc.com.au/>