



**Australian Government**

# **RIINHB301E Set up and prepare for drilling operations**

**Release: 1**

## RIINHB301E Set up and prepare for drilling operations

### 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 prepare for drilling operations, set up drill and equipment and diagnose problems in drilling.

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, legislative 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 drilling operations	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply drilling 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 for work activities 1.5 Communicate with other personnel at site according to work requirements and confirm briefings and handover details are communicated and received 1.6 Identify and determine location and nature of any installed

ELEMENT	PERFORMANCE CRITERIA
	<p>services near or crossing the proposed drill plan</p> <p>1.7 Identify and obtain all necessary permits and consents</p> <p>1.8 Develop contingency plans for changes in geological conditions</p> <p>1.9 Obtain and interpret emergency procedures and identify steps required in case of fires, accidents and other emergencies</p>
2. Prepare to drill	<p>2.1 Check all required personnel, equipment and supplies are available</p> <p>2.2 Check equipment is in operational condition, and address identified issues according to manufacturer specifications</p> <p>2.3 Erect or place safety barriers where needed according to safety requirements</p> <p>2.4 Check all modes of communication according to work requirements and workplace procedures</p> <p>2.5 Select suitable lay down areas for separate storage of chemicals and fuels or other incompatible items according to safety requirements</p> <p>2.6 Select locations for ancillary equipment that provide maximum efficiency and minimal risk to personnel</p>
3. Set up drill and equipment	<p>3.1 Carry out prestart and start-up procedures according to manufacturer specifications and workplace procedures</p> <p>3.2 Ensure a solid foundation for the rig</p> <p>3.3 Interpret plans and position equipment accurately</p> <p>3.4 Stabilise drill according to manufacturer specifications</p> <p>3.5 Align and secure mast at correct angle according to manufacturer specifications and drill plan</p> <p>3.6 Position ancillary equipment accurately according to work requirements</p>
4. Diagnose problems	<p>4.1 Recognise symptoms of problem according to workplace procedures</p> <p>4.2 Identify and isolate causes and determine solution</p> <p>4.3 Implement solution if within scope of authority and competence</p> <p>4.4 Seek help if problem is too complex</p> <p>4.5 Implement solution as directed</p>

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

<b>SKILL</b>	<b>DESCRIPTION</b>
Numeracy	<ul style="list-style-type: none"><li>Identifies and comprehends relevant mathematical information in relation to setting up and preparing for drilling operations</li></ul>

## Unit Mapping Information

Supersedes and is equivalent to RIINHB301D Set up and prepare for drilling operations.

## Links

Companion Volume implementation guides is found on VETNet -

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