



Australian Government

RIIBHD304D Set up and prepare for open-cut drilling operations

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIBHD304B Set-up and prepare for open cut drilling operations
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 set up and prepare for open-cut drilling operations in the Coal and Metalliferous mining and Extractive.

This unit is appropriate for those working in operational roles of open-cut drilling.

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

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

1 Prepare drilling site	1.1 Access, interpret and apply open cut drilling documentation and ensure the work activity is compliant 1.2 Receive, interpret and clarify shift changeover details 1.3 Identify, manage and report potential hazards and risks according to work plan 1.4 Select and wears personal protective equipment 1.5 Conduct equipment pre-start checks to ensure equipment is ready for operation 1.6 Assess site conditions and historical information of past performance to determine and clarify drilling requirements
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	1.7 Locate and connect ancillary services 1.8 Stabilise drill to minimise delays and breakdowns and ensure safety of operating personnel and continuous drilling 1.9 Communicate with other personnel using approved communication methods 1.10 Adhere to emergency procedures to ensure safety of personnel, plant and equipment
2 Mark out drill pattern	2.1 Erect physical barricades and signage to protect pattern from unauthorised personnel and equipment 2.2 Adjust drill pattern within authorised tolerances and drill pattern 2.3 Obtain authorisation for changes to drill pattern plan from relevant authority 2.4 Place indicators on drill pattern in preparation for hole drilling 2.5 Mark out drill pattern ensuring it is visible and aids the drilling process 2.6 Protect pre-existing drill holes according to characteristics of hole 2.7 Complete all written documentation clearly, concisely and on time
3 Move equipment and materials to pattern	3.1 Prepare rig for moving 3.2 Determine route and destination prior to movement of equipment and materials 3.3 Identify and manage potential hazards to ensure safe transportation to drill site 3.4 Move equipment and attachments safely and avoid damage to equipment and site or injury to personnel 3.5 Align drill rig in appropriate position to access drill pattern efficiently 3.6 Connect ancillary services

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

RIIBHD304B Set up and prepare for open cut-drilling operations

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 RIIBHD304D Set up and prepare for open-cut drilling operations

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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
- works effectively with others to set-up and prepare for open cut drilling operations that meet all of the required outcomes including:
 - uses a range of communication techniques and strategies to communicate and coordinate information and activity to others
- demonstrates completion of setting up and preparing for open cut drilling operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - preparing the drilling site; marks out drill pattern
 - adjusting, marking out, and changing the drill pattern
 - carrying out risk assessment, identify hazard, establishes controls and reports
 - correctly interpret plans, reports, maps, specifications demonstrates correct driving and direct drilling techniques
 - preparing drill rig for moving,
 - moving all drill rig equipment and attachments
 - realign and position drill rig

Knowledge Evidence

The candidate must demonstrate knowledge of setting up and preparing for open-cut drilling operations through:

- relevant legislative, organisation and site requirements and procedures
- equipment processes, technical capability and limitations
- equipment safety requirements
- interpretation of geological and technical data
- the mine operational system

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 is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated 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; 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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