



Australian Government

RIIBHD303D Conduct long hole drilling

Release: 2

RIIBHD303D Conduct long hole drilling

Modification History

Release	Comment
1	This unit replaces RIIBHD303A Conduct long hole drilling
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 conduct long hole drilling in the Metalliferous mining.

This unit is appropriate for those working in driller roles.

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

Unit Sector

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare drilling site	1.1 Access, interpret and apply drilling documentation and ensure the work activity is compliant 1.2 Plan and prepare work activities to meet drilling requirements 1.3 Receive, interpret and clarify shift change over details and review historical information 1.4 Select and wear correct personal protective equipment 1.5 Identify, manage and/or report hazards and potential risks according to the work plan 1.6 Inspect and assess site conditions to determine if scaling is required and take action according to site requirements 1.7 Place visible orientation marks to drill plan according to site procedures 1.8 Ensure auxiliary services are available
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	1.9 Erect physical barricades and signs and/or safety provisions to prevent unauthorised access 1.10 Identify and clearly mark butts/misfires according to site procedures 1.11 Ensure area is well ventilated using dust suppression and extraction methods before entry into work area 1.12 Conduct equipment pre-start checks to insure equipment is safe and ready to use
2. Move equipment and materials to site	2.1 Conduct work in a safe and efficient manner 2.2 Complete pre-start checks and confirm equipment is prepared for transportation 2.3 Identify and manage hazards and potential risks to ensure safe transportation to drill site 2.4 Transport equipment and attachments safely, according to road conditions, avoiding damage to equipment, site or injury to personnel 2.5 Position and stabilise equipment at site according to ground conditions 2.6 Connect auxiliary services 2.7 Read, interpret and align equipment with orientation marks
3. Drill and monitor progression	3.1 Conduct work according to procedures, requirements and specifications in a safe and efficient manner 3.2 Identify, manage and/or report hazards and potential risks according to work plan 3.3 Use approved dust suppression and extraction methods 3.4 Operate equipment safely within working environment limitations and face/ground conditions 3.5 Interpret drill plans, then drill holes and realign equipment according to drill design and ground conditions 3.6 Monitor ground conditions and adjust drilling techniques and components to maintain drilling operations 3.7 Install collar pipes 3.8 Remove drill cuttings and sludge to ensure drill hole remains clean 3.9 Complete all required documentation clearly, concisely and mark misdirected holes
4. Pack-up drill site	4.1 Carry out shutdown procedures

	4.2 De-rig equipment appropriately 4.3 Clear site of debris 4.4 Remove auxiliary services to allocated area 4.5 Confirm equipment is ready for transport
5. Carry out operator maintenance	5.1 Service and make minor adjustments to equipment 5.2 Visually inspect equipment and report faults and make equipment available for routine operational servicing 5.3 Provide operator support during preparation for, and conduct of maintenance tasks
6. Conduct housekeeping activities	6.1 Clean equipment to maintain condition of equipment and ensure safe and efficient operations 6.2 Clean and store auxiliary service equipment 6.3 Complete all required written documentation clearly, concisely and on time 6.4 Pass on end of shift information to oncoming shift

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

RIIBHD303A Conduct long hole drilling

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 RIIBHD303D Conduct long hole drilling

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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 undertake and complete long hole drilling that meets all of the required outcomes including:
 - communicating both verbally and orally that is clear and concise with others to receive and pass on changing of shift information
- demonstrates completion of conducting long hole drilling that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - operates, maintains, cleans and stores auxiliary equipment
 - preparing site and equipment for drilling
 - interpreting drill plans, drill holes correctly and realign equipment
 - ensuring hole remains clean by removing drill cuttings and sludge
 - carrying out shutdown procedures and sequence for de-rigging equipment

Knowledge Evidence

The candidate must demonstrate knowledge of conducting long hole drilling through:

- relevant legislative, organisation and site requirements and procedures
- drilling equipment processes, technical capability and limitations
- equipment safety requirements
- geological and technical data

- handling and transport of hazardous substances
- manufacturer's specifications

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 must be assessed in the context of this sector's work environment; 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.
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*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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