



Australian Government

RIIBLA302D Conduct shotfiring operations in underground coal mines

Release: 2

RIIBLA302D Conduct shotfiring operations in underground coal mines

Modification History

Release	Comment
1	This unit replaces RIIBLA302A Conduct shotfiring operations in underground coal mines
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 shotfiring operations in underground coal mines in Coal mining.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Coal mining (Underground)

Elements and Performance Criteria

1. Plan and prepare to conduct underground shotfiring operations	<p>1.1 Access, interpret and apply shotfiring documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, confirm and apply Blasting Management Plan and blast plan requirements and work instructions before proceeding</p> <p>1.3 Identify, manage and report all potential hazards, risks and environmental issues</p> <p>1.4 Select and wear personal protective equipment appropriate to the work activities</p> <p>1.5 Obtain and interpret emergency procedures and be prepared for fire/accident/emergency</p> <p>1.6 Coordinate vehicle, equipment and personnel support</p>
--	--

	<p>requirements</p> <p>1.7 Access, interpret and apply environmental, geological and survey data required to complete the work</p> <p>1.8 Carry out calculations to enable pattern design, loading and tying in of shots</p> <p>1.9 Complete pattern design, including loading, hole spacing and depth, stemming and wiring requirements</p> <p>1.10 Carry out briefings</p> <p>1.11 Identify and confirm the explosives and accessories required</p>
2. Supervise the store and transport explosives and accessories	<p>2.1 Order and receive explosives and accessories</p> <p>2.2 Ensure explosives and accessories are safely and correctly stored</p> <p>2.3 Ensure inventory control systems are accurately and correctly maintained</p> <p>2.4 Ensure explosives and accessories are transported to blast area and segregate correctly</p> <p>2.5 Ensure that explosives are not left unattended</p> <p>2.6 Identify and dispose of any deteriorated or out of date explosives and accessories correctly</p>
3. Prepare for charging	<p>3.1 Identify, manage and report potential hazards and risks</p> <p>3.2 Secure blast area in accordance with procedures and blast plan</p> <p>3.3 Establish and communicate access routes to shot area for authorised persons and vehicle</p> <p>3.4 Identify hole locations and any non-conforming conditions in preparation for charging</p> <p>3.5 Set up charging equipment</p> <p>3.6 Prepare holes for charging</p>
4. Charge holes	<p>4.1 Supervise blast personnel during loading operations</p> <p>4.2 Prime and charge holes</p> <p>4.3 Ensure blast holes are charged in accordance with loading plan and identify non-conforming conditions</p> <p>4.4 Apply explosion inhibitor</p> <p>4.5 Ensure blast holes are stemmed</p> <p>4.6 Clear the area of equipment, personnel and isolate/barricade the blast area, including warning signs</p> <p>4.7 Test equipment and accessories</p>

	4.8 Maintain written records 4.9 Conduct blast monitoring
5. Conduct the blast	5.1 Carry out pre blasting procedures and establish exclusion zone 5.2 Carry out tying in 5.3 Supervise all personnel within the blast area during tie-in and initiation 5.4 Initiate the blast 5.5 Carry out and record activities in accordance with the blast plan
6. Complete post blast activities	6.1 Carry out post blast inspection 6.2 Secure firing circuits and initiation device 6.3 Report blasting has been completed to relevant personnel 6.4 Carry out post-blast coordination and declare area safe for re-entry 6.5 Inspect site and deal with non-conformities including misfires 6.6 Identify and dispose of surplus, damaged and deteriorated explosives and detonators 6.7 Ensure that emergency services are advised of the disposal activities in accordance with site procedures 6.8 Complete written reports
7. Carry out equipment maintenance	7.1 Carry out inspection and required maintenance during and after shotfiring operations 7.2 Maintain maintenance records

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

RIIBLA302A Conducting shotfiring operations in underground coal mines

Links

Companion Volume implementation guides are found in VETNet -

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