



Australian Government

RIIBLA308D Conduct electronic blasting operations

Release: 1

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Modification History

Release	Comment
1	This is the first release of this unit.

Application

This unit describes a participant's skills and knowledge required to conduct electronic blasting operations in the metalliferous mining, coal mining and extractive sectors.

This unit is appropriate for those working in operational roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Unit Sectors

Metalliferous mining

Coal mining

Extractive

Elements and Performance Criteria

1. Plan and prepare to conduct electronic blasting operations	1.1 Access, interpret and apply shotfiring documentation and ensure the work activity is compliant 1.2 Obtain, confirm and apply shotfiring requirements and work instructions before proceeding 1.3 Identify, manage and report all potential hazards, risks and environmental issues 1.4 Select and wear personal protective equipment appropriate to the work activities 1.5 Obtain and interpret emergency procedures and be prepared for fire/accident/emergency 1.6 Coordinate vehicle, equipment and personnel support requirements 1.7 Arrange and ensure assessment of blast area is complete, records are maintained and reported to appropriate personnel
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	1.8 Access, interpret and apply geological data required to complete the work 1.9 Carry out calculations to enable pattern design, loading and tying in of shots as per manufacturer specifications 1.10 Identify and confirm the explosives and accessories required for the work 1.11 Identify and manage the condition of electronic blasting system equipment required for charging and firing the blast
2. Supervise the storage and transport of explosives and accessories	2.1 Ensure explosives and accessories are safely and correctly stored 2.2 Ensure inventory control systems are accurately and correctly maintained 2.3 Ensure firing keys and/or codes are kept secure 2.4 Ensure explosives and accessories are transported to blast area and segregate correctly 2.5 Ensure that explosives are not left unattended 2.6 Identify and dispose of any deteriorated or out of date explosives and accessories correctly
3. Prepare for charging	3.1 Secure shot area in accordance with procedures and blast plan 3.2 Establish and communicate access routes to shot site for authorised persons and vehicles 3.3 Identify blasthole locations and any non-conforming conditions in preparation for charging 3.4 Establish stemming stockpile (if appropriate) and accessories on shot site
4. Charge and stem blastholes	4.1 Supervise blast personnel during charging operations 4.2 Prime and charge blastholes in accordance with the blast plan and any non-conforming conditions 4.3 Ensure blastholes are stemmed in accordance with the blast plan 4.4 Inspect equipment and accessories used for charging 4.5 Maintain records
5. Conduct tie-in of the electronic blasting system	5.1 Obtain and confirm electronic timing plan 5.2 Conduct scanning/logging/tagging of detonators 5.3 Connect to the harness/busline 5.4 Test for leakage

	5.5 Diagnose and fault-find errors
	5.6 Check system communications
6. Conduct the blast	6.1 Carry out pre blasting procedures and establish exclusion zone 6.2 Supervise all personnel during initiation 6.3 Conduct final system checks 6.4 Initiate the blast safely 6.5 Carry out and record activities in accordance with the blast plan
7. Complete post blast activities	7.1 Carry out post blast inspection 7.2 Deal with any identified misfires 7.3 Declare area safe for re-entry 7.4 Complete reports
8. Carry out equipment maintenance	8.1 Carry out equipment inspection, care and maintenance after shotfiring operations 8.2 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

Code and title Current version	Code and title Previous version	Comments	Equivalence status
RIIBLA308D Conduct electronic blasting operations	This is the first release of this unit	Release 1	No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

