



Australian Government

RIIBLA303E Conduct underground development shotfiring

Release: 1

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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 conduct underground development shotfiring in metalliferous mining. It includes supervising storage and transport of explosives and accessories, conducting blasts and carrying out post-blast activities.

It applies to those working in operational roles. They generally work under minimal supervision to undertake a broad range of skilled applications in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Metalliferous mining (underground)

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 to conduct underground development shotfiring	1.1 Obtain, interpret, confirm and clarify blasting management plan and blast plan requirements 1.2 Access, interpret and apply underground development shotfiring documentation and confirm work activity is compliant 1.3 Identify, manage and report potential hazards, risks and environmental issues according to legislative and site requirements 1.4 Select and wear personal protective equipment according to legislative and site requirements 1.5 Obtain and interpret emergency procedures and confirm steps required to respond to emergencies

ELEMENT	PERFORMANCE CRITERIA
	1.6 Coordinate vehicle, equipment and personnel support within scope of own role 1.7 Arrange survey of blast area according to job requirements and confirm survey and required records are completed and reported to appropriate personnel according to site requirements 1.8 Access, interpret and apply geological data according to site requirements 1.9 Carry out calculations required for pattern design, loading and tying in of shots 1.10 Identify and confirm explosives and accessories according to site requirements
2. Supervise storage and transport of explosives and accessories	2.1 Confirm explosives and accessories are stored according to site requirements 2.2 Confirm inventory control systems are maintained according to site requirements 2.3 Confirm explosives and accessories are transported to blast area and segregate according to site requirements 2.4 Confirm that explosives are not left unattended 2.5 Identify and dispose of any deteriorated or out of date explosives and accessories according to manufacturer specifications and site requirements
3. Prepare for charging	3.1 Identify, manage and report potential hazards and risks according to legislative and site requirements 3.2 Secure blast area according to blast plan and site requirements 3.3 Establish and communicate access routes to shot area for authorised persons and vehicle according to site requirements 3.4 Identify hole locations and non-conforming conditions according to site requirements 3.5 Set up charging equipment according to site requirements 3.6 Prepare holes for charging according to blast plan
4. Charge holes	4.1 Supervise blast personnel during loading operations 4.2 Prime and charge holes according to blast plan 4.3 Confirm blast holes are charged according to loading plan and identify non-conforming conditions 4.4 Confirm blast holes are stemmed according to blast plan 4.5 Clear area and isolate/barricade blast area according to site requirements 4.6 Test equipment and accessories according to manufacturer specifications and site requirements 4.7 Complete records according to site requirements

ELEMENT	PERFORMANCE CRITERIA
	4.8 Conduct blast monitoring according to site requirements
5. Conduct blast	5.1 Carry out pre-blasting procedures and establish exclusion zone according to site requirements 5.2 Carry out tying in according to blast plan 5.3 Supervise personnel within the blast area during tie-in and initiation 5.4 Initiate blast according to manufacturer specifications and site requirements 5.5 Carry out and record activities according to site requirements
6. Complete post-blast activities	6.1 Carry out post blast inspection according to site requirements 6.2 Secure firing circuits and initiation device according to manufacturer specifications and site requirements 6.3 Report blasting completion to relevant personnel according to site requirements 6.4 Carry out post-blast coordination and declare area safe for re-entry according to site requirements 6.5 Inspect site and address non-conformities according to site requirements 6.6 Identify and dispose of surplus, damaged and deteriorated explosives and detonators according to manufacturer specifications and site requirements 6.7 Confirm emergency services are advised of disposal activities according to site requirements 6.8 Complete reports according to site requirements
7. Carry out equipment maintenance	7.1 Carry out inspection and required maintenance according to manufacturer specifications and site requirements 7.2 Complete maintenance records according to site requirements

Foundation Skills

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

SKILL	DESCRIPTION
Numeracy	Calculates measurements, masses and dimensions
Reading	Identifies and interprets information from workplace documentation
Self-management	Monitors and minimises own exposure to worksite risks and hazards during activities

SKILL	DESCRIPTION
Writing	Completes workplace reports using sector-specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIIBLA303D Conduct underground development shotfiring.

Links

Companion Volume Implementation Guide is found on VETNet -

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