



**Australian Government**

# **RIIBLA303D Conduct underground development shotfiring**

**Release: 2**

## **RIIBLA303D Conduct underground development shotfiring**

### **Modification History**

Not applicable.

## Application

This unit describes a participant's skills and knowledge required to conduct underground development shotfiring in Metalliferous 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

## Elements and Performance Criteria

1 Plan and prepare	<p>1.1 Access, interpret and apply underground development shotfiring documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, confirm and apply Blasting Management Plan and blast plan requirements</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>1.7 Arrange and/or ensure survey of blast area is complete and reported to appropriate personnel and records are maintained</p> <p>1.8 Access, interpret and apply geological data required</p> <p>1.9 Carry out calculations to enable pattern design, loading and tying in of shots</p> <p>1.10 Identify and confirm the explosives and accessories required</p>
2 Supervise the store and transport explosives and accessories	<p>2.1 Ensure explosives and accessories are safely and correctly stored</p> <p>2.2 Ensure inventory control systems are accurately and correctly maintained</p> <p>2.3 Ensure explosives and accessories are transported to blast area and segregate correctly</p> <p>2.4 Ensure that explosives are not left unattended</p> <p>2.5 Identify and dispose of any deteriorated or out of date explosives and accessories correctly</p>
3 Prepare for charging	3.1 Identify, manage and report potential hazards and risks

	<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 in accordance with site procedures</p> <p>3.6 Prepare holes for charging in accordance with blast plan</p>
4 Charge holes	<p>4.1 Supervise blast personnel during loading operations</p> <p>4.2 Prime and charge holes in accordance with the blast plan</p> <p>4.3 Ensure blast holes are charged in accordance with loading plan and identify non-conforming conditions</p> <p>4.4 Ensure blast holes are stemmed in accordance with blast plan</p> <p>4.5 Clear the area of equipment, personnel and isolate/barricade the blast area, including warning signs</p> <p>4.6 Test equipment and accessories</p> <p>4.7 Maintain written records</p> <p>4.8 Conduct blast monitoring</p>
5 Conduct the blast	<p>5.1 Carry out pre blasting procedures and establish exclusion zone</p> <p>5.2 Carry out tying in, in accordance with the blast plan</p> <p>5.3 Supervise all personnel within the blast area during tie-in and initiation</p> <p>5.4 Initiate the blast appropriately</p> <p>5.5 Carry out and record activities</p>
6 Complete post blast activities	<p>6.1 Carry out post blast inspection</p> <p>6.2 Secure firing circuits and initiation device</p> <p>6.3 Report blasting has been completed to relevant personnel</p> <p>6.4 Carry out post-blast coordination and declare area safe for re-entry</p> <p>6.5 Inspect site and deal with non-conformities including misfires</p> <p>6.6 Identify and dispose of surplus, damaged and deteriorated explosives and detonators</p> <p>6.7 Ensure that emergency services are advised of the disposal activities</p> <p>6.8 Complete written reports</p>
7 Carry out equipment	<p>7.1 Carry out inspection and required maintenance during and after</p>

maintenance	shotfiring operations 7.2 Maintain written maintenance records
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## Foundation Skills

## Unit Mapping Information

RIIBLA303A Conducting underground development shotfiring

## Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>