



**Australian Government**

# **RIIBLA401E Manage blasting operations**

**Release: 1**

# RIIBLA401E Manage blasting operations

## 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 manage blasting operations in the resources and infrastructure industries. It includes implementing blast plans, monitoring blasting and coordinating post-blast inspections.

It applies to those working in supervisory roles. They are generally responsible for the output of others, contribute to the development of technical solutions to non-routine problems and apply management plans to the workplace.

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

Civil construction

Coal mining

Extractive

Drilling

Metalliferous mining

## 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. Manage compliance with legislation	1.1 Access, interpret and apply blasting operations documentation and confirm work activity is compliant 1.2 Identify and manage training requirements, licenses or authorities required for explosives storage, manufacture, transport and use activities, according to legislative and requirements 1.3 Apply procedures for identification of potential safety and

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
	<p>security hazards and implementation and application of the site/organisation risk management system according to legislative and site requirements</p> <p>1.4 Identify and resource appropriate personal protective equipment according to manufacturer specifications and legislative and site requirements</p> <p>1.5 Obtain and interpret emergency procedures and confirm steps required to respond to emergencies</p> <p>1.6 Manage explosives security according to legislative and site requirements</p> <p>1.7 Manage blasting records according to legislative and site requirements</p> <p>1.8 Record and report explosives incidents according to legislative and site requirements</p>
2. Manage the storage, handling and transport of explosives	<p>2.1 Apply procedures for safe handling of explosives according to legislative and site requirements</p> <p>2.2 Apply procedures for transporting explosives according to legislative and site requirements</p> <p>2.3 Apply procedures for storage of explosives according to legislative and site requirements</p>
3. Manage the implementation of blasting activities	<p>3.1 Identify environmental hazards and analyse risks associated with blasting</p> <p>3.2 Access, interpret and validate the blast design criteria</p> <p>3.3 Implement the blast plan according to site requirements</p> <p>3.4 Apply blast monitoring according to site requirements</p> <p>3.5 Apply site inspection regime according to legislative and site requirements</p> <p>3.6 Manage and coordinate support activities according to legislative and site requirements</p> <p>3.7 Apply site procedures for setting up and securing the blast area</p> <p>3.8 Apply procedures for monitoring quality assurance and quality control processes and confirm authorised explosives are being manufactured</p> <p>3.9 Apply and manage blast clearance processes according to site requirements</p> <p>3.10 Apply and manage blast initiation process according to site requirements</p> <p>3.11 Apply special requirements for secondary blasting operations</p> <p>3.12 Apply and manage post-blasting coordination and inspection requirements</p> <p>3.13 Complete statutory and site-required documents according to</p>

ELEMENT	PERFORMANCE CRITERIA
	site requirements
4. Manage misfires	<p>4.1 Apply site procedures for re-assessment of the blast site for potential hazards and risks and confirm work area is safe</p> <p>4.2 Inspect blast area and identify misfires or potential misfires and their cause</p> <p>4.3 Secure misfire area according to legislative and site requirements and communicate information to other affected personnel</p> <p>4.4 Apply procedures to for washing-out or re-charging, and manage refiring, according to site requirements</p> <p>4.5 Communicate safety of the area to affected persons according to site requirements</p> <p>4.6 Record and report misfires according to legislative and site requirements</p>
5. Manage the disposal of explosives	<p>5.1 Identify damaged, deteriorated and out of date explosives and detonators</p> <p>5.2 Select disposal method for explosives and detonators according to manufacturer specifications and legislative and site requirements</p> <p>5.3 Plan for disposal of damaged, deteriorated and out of date explosives and detonators according to manufacturer specifications and legislative and site requirements</p> <p>5.4 Dispose of damaged, deteriorated and out of date explosives and detonators according to legislative and site requirements</p> <p>5.5 Manage and maintain disposal records according to legislative and site requirements</p>
6. Manage maintenance of blasting equipment	<p>6.1 Identify manufacturer specified maintenance schedules for all plant and equipment associated with blasting operations</p> <p>6.2 Manage inspection schedules for all plant and equipment associated with blasting operations according to manufacturer specifications and site requirements</p> <p>6.3 Apply and manage procedures for decontaminating plant and equipment used for manufacturing explosives and transferring explosives precursors and security-sensitive ammonium nitrate (SSAN) before maintenance is performed</p> <p>6.4 Manage maintenance record keeping according to legislative and site requirements</p>

## 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	<ul style="list-style-type: none"><li>Calculates measurements, products and ratios</li></ul>
Oral communication	<ul style="list-style-type: none"><li>Conveys information and requirements clearly and listens carefully</li></ul>
Reading	<ul style="list-style-type: none"><li>Identifies and interprets information from workplace documentation and legislation</li></ul>
Writing	<ul style="list-style-type: none"><li>Completes workplace and legislative documentation using sector-specific vocabulary, grammatical structures and conventions</li></ul>

## Unit Mapping Information

Supersedes and is equivalent to RIIBLA401D Manage blasting operations.

## Links

Companion Volume Implementation Guide is found on VETNet -

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