



Australian Government

RIIBLA403 Design blasts

Release: 1

RIIBLA403 Design blasts

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 design blasts in civil construction, coal and metalliferous mining and extractive sectors. It includes planning, preparing and documenting blast plans and budgets and monitoring and evaluating blast results.

It applies to those working in technical specialist roles. They generally contribute to the development of technical solutions to complex and non-routine problems.

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

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. Plan and prepare for design of blast	1.1 Access, interpret and clarify requirements relevant to blast design and implementation 1.2 Access, interpret and apply blast plan documentation and confirm work activity is compliant 1.3 Identify, address and report potential risks, hazards and environmental issues, determine acceptable levels of risk and implement control measures according to site requirements 1.3 Confirm geological and survey data relevant to blast design and

ELEMENT	PERFORMANCE CRITERIA
	<p>implementation</p> <p>1.5 Identify operational limitations relating to blast design and implementation</p> <p>1.6 Identify available explosives and their characteristics relating to blast design and implementation</p> <p>1.7 Identify available initiation options and their characteristics relating to blast design and implementation</p>
2. Prepare blast plan	<p>2.1 Apply blast design parameters according to legislative and site requirements</p> <p>2.2 Confirm blast plan meets blast requirements and parameters</p> <p>2.3 Document blast plan</p>
3. Implement, monitor and adjust blast plans	<p>3.1 Issue, communicate, explain and clarify blast plan to personnel involved in blast</p> <p>3.2 Provide support and advice to personnel involved in blast plan</p> <p>3.3 Confirm reports are maintained and issued to relevant personnel according to blast plan and site conditions</p> <p>3.4 Monitor and confirm results of blast against blast design requirements and parameters</p> <p>3.5 Identify and resolve variances in consultation with relevant stakeholders and issue instructions for adjustments to future plans and/or their implementation</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"> Calculates measurements, products and ratios
Oral communication	<ul style="list-style-type: none"> Conveys information and requirements clearly and listens carefully
Reading	<ul style="list-style-type: none"> Identifies and interprets information from workplace documentation and legislation
Writing	<ul style="list-style-type: none"> Completes workplace and legislative documentation using sector-specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIIBLA601E Design blasts.

Links

Companion Volume Implementation Guide is found on VETNet -

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