



Australian Government

RIIBLA307E Conduct a blast survey

Release: 1

RIIBLA307E Conduct a blast survey

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 a blast survey in civil construction, coal and metalliferous mining and extractive sectors. It includes operating survey equipment, preparing survey reports and carrying out basic maintenance.

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.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

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

ELEMENT	PERFORMANCE CRITERIA
	1.5 Obtain, interpret and clarify survey parameters 1.6 Carry out survey equipment checks according to manufacturer specifications and site requirements
2. Operate surveying equipment	2.1 Carry out equipment set-up and start-up procedures according to manufacturer specifications and site requirements 2.2 Survey blast area according to job requirements 2.3 Prepare survey reports and report to appropriate personnel according to job and site requirements 2.4 Diagnose and rectify equipment faults according to manufacturer specifications and site requirements or report to appropriate personnel as required
3. Carry out basic surveying equipment maintenance	3.1 Carry out inspections and fault finding according to manufacturer specifications and site requirements 3.2 Carry out routine servicing and housekeeping according to manufacturer specifications and site requirements 3.3 Carry out minor maintenance according to manufacturer specifications and site requirements 3.4 Maintain 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

Unit Mapping Information

Supersedes and is equivalent to RIIBLA307D Conduct a blast survey.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for RIIBLA307E Conduct a blast survey

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- conduct blast surveys on at least two occasions, including:
 - planning and preparing blast surveys
 - interpreting geological data
 - clarifying survey parameters
 - completing survey equipment checks
 - operating survey equipment
 - surveying blast area
 - preparing survey reports
 - carrying out basic maintenance.

During the above, the candidate must:

- locate and apply relevant documentation and procedures and confirm work activity is compliant
- work effectively with others to undertake and complete blast survey that meets required outcomes, including:
 - complying with reporting requirements and procedures
 - communicating clearly and concisely with others to:
 - receive and clarify work instructions
 - resolve coordination requirements within scope of own role.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key procedures and documentation required to conduct blast surveys, including:

- site plans and maps
- types, characteristics, technical capabilities and limitations of blast survey equipment
- manual and electronic survey techniques for set-up and collection of data, including:
 - linear measurement
 - angular measurement
- techniques for interpreting and applying geological data, including:
 - rock types
 - structures
 - faults
 - intrusions
 - weathering
- techniques for coordinating job activities with others.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment required to conduct blast survey
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes

- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 years
Other sectors	Where this unit is being assessed outside of the resources and infrastructure sectors assessor and/or industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no industry standard is specified should comply with any relevant regulation.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**Assessors can demonstrate current work experience through employment within industry in a role relevant to the outcomes of the unit; or, for external assessors this can be demonstrated through exposure to industry by conducting a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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