



Australian Government

Department of Education, Employment and Workplace Relations

RIIBLA307A Conduct blast survey

Release: 1

RIIBLA307A Conduct blast survey

Modification History

Not applicable.

Unit Descriptor

This unit covers conducting blast survey in resources and infrastructure industries. It includes: planning and preparing for operations; operating the survey equipment; and carrying out basic maintenance.

Application of the Unit

This unit is appropriate for those working in operational roles, within:

- Civil construction
- Coal mining
- Extractive industries
- Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare for operations	1.1. Access, interpret and apply compliance documentation relevant to conduct blast survey 1.2. Interpret and apply relevant geological data required to complete the allocated task 1.3. Receive, interpret and clarify survey parameters 1.4. Carry out survey equipment checks
2. Operating surveying equipment	2.1. Set up appropriate signage 2.2. Carry out the set up and start of equipment 2.3. Survey blast area to task requirements 2.4. Prepare survey reports, report to appropriate personnel and maintain records 2.5. Complete work in accordance with the agreed plans and outcomes and within the operating capacities of the equipment 2.6. Carry out operations in accordance with quality requirements 2.7. Diagnose, rectify or report equipment faults to appropriate personnel
3. Carry out basic maintenance	3.1. Carry out inspections and fault finding 3.2. Carry out routine servicing and housekeeping 3.3. Carry out minor maintenance 3.4. Maintain records

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the performance criteria in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to conduct blast survey:

- apply legislative, organisation and site requirements and procedures
- apply survey equipment operating procedures
- apply field geometry methods
- apply equipment records requirements
- access, interpret and apply technical information
- use relevant hand tools
- apply diagnostic techniques
- apply eye/hand co-ordination
- apply hazard identification procedures
- apply computer software
- apply workplace communications
- work wearing personal protective equipment
- apply procedures for working in confined spaces
- apply procedures for working at heights
- apply using linear and angular survey measurements
- read and interpret plans
- apply plan documents updating requirements

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to conduct blast survey:

- site and equipment safety requirement
- equipment and characteristics, technical capabilities and limitations
- operational and maintenance procedures
- environmental requirements and procedures
- survey techniques for set up and collection of data
- linear measurement
- angular measurement
- manual and electronic means of conducting survey
- plans and maps

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following: • knowledge of the requirements, procedures and instructions for conducting blast survey • implementation of requirements, procedures and techniques for the safe, effective and efficient conducting of blast survey • working with others to undertake and complete blast survey that meets all of the required outcomes • consistent timely completion of blast survey that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	• This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. • The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. • Customisation of assessment and delivery environment to sensitively accommodate cultural diversity. • Aboriginal people and other people from a non English speaking background may have second language issues.

	• Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • Where applicable, physical resources should include equipment modified for people with disabilities. • Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods: • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: • implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete blast survey
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	• legislative, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Geological data may include:	• rock type • structures • faults • intrusions • weathering
Survey equipment is not limited to electronic equipment and may include:	• profiler • Boretrak equipment • computer • software • tapes • "fishing" poles string lines and plumb bobs • survey markers • contour maps • bore hole log • video • inclinometer
Survey may be used to establish:	• rock type/geological formation shapes • drill angle • drill depth • face stability • hole size • pattern

Unit Sector(s)

Blasting

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.