



Australian Government

Department of Education, Employment and Workplace Relations

RIIMCU211A Install and maintain explosion barriers

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers installing and maintaining explosion barriers in the coal mining industry. It includes: planning and preparing, and installing and maintaining explosion barriers. Licensing, legislative, regulatory and certification requirements vary between States, Territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Application of the Unit

This unit is appropriate for those working in an assistant role, at worksites within:

- Coal 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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Access, interpret and apply mine environmental data required to complete the allocated work 1.3. Obtain and prepare materials and resources required for work in accordance with the work requirements and site procedures
2. Install and maintain explosion barriers	2.1. Resolve coordination activities with others at the site prior to commencement of, and during, the work activity 2.2. Prepare worksite in accordance with site procedures to ensure a safe working environment 2.3. Install barriers in accordance with relevant manufacturer's specifications and/or site specific installation procedures and practices 2.4. Fill and maintain barriers in accordance with manufacturer's instructions and/or site procedures and practices 2.5. Recognise and respond to hazardous and emergency situations in accordance with manufacturer's instructions and/or site procedures 2.6. Carry out inspections in accordance with site and/or legislative requirement

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 of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following, as required to install and maintain explosions barriers:

- apply legislative, organisation and site requirements and procedures for installing and maintaining explosion barriers
- apply personal and operational safety requirements
- access, interpret, apply and communicate technical information
- apply construction techniques
- perform barrier maintenance
- use hand tools
- comply with environmental requirements

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following, as required to install and maintain explosion barriers:

- operational safety requirements
- mine operational procedures and mine layout
- types and applications of barriers
- barrier construction processes and techniques
- barrier maintenance procedures
- mine environmental requirements and constraints related to barrier construction

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 installing and maintaining explosion barriers • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of the installation and maintenance of explosion barriers • working with others to undertake and complete the installation and maintenance of explosion barriers in a way that meets all of the required outcomes • consistent timely completion of the installation and maintenance of explosion barriers 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. • Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. • 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. • 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 • consistent achievement of required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete the installation and maintenance of explosion barriers
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, organisational and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation • management plans • OHS policy • code of practice
Work requirements may be in the form of:	• shift briefings • handover details • work orders
Work requirement details may include:	• the types and specification of barriers • locations • essential survey data • achievement targets • site conditions • equipment/plant allocation, including any defects • hazards • potential hazards • coordination requirements/issues
Mine environmental data may be in the form of:	• ventilation/gas data • deputy reports • geological data • survey data
Explosion barriers may include:	• stone dust • water
Machinery may include:	• load haul dump • multipurpose vehicles • trailer • sled

Equipment may include:	• chains • eye bolts • hand tools • jacks • bolter drills and bits • level • tubs and frames • props • trays and purlins • bolts
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Unit Sector(s)

Coal Mining (Underground)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.