



Australian Government

Department of Education, Employment and Workplace Relations

RIIMEX201A Suppress dust in open-cut environment

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers suppressing of dust in an open cut environment in the coal and metalliferous mining and extractive industries. It includes applying dust suppressant and minimising dust creation.

Application of the Unit

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

- 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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Apply dust suppressant	1.1. Access, interpret and apply compliance documentation relevant to suppressing of dust in an open cut environment 1.2. Receive, interpret and clarify shift changeover details 1.3. Select appropriate dust suppression method according to site conditions 1.4. Distribute dust suppressant in appropriate pattern according to road type 1.5. Adjust dust suppression activities according to schedule and weather conditions 1.6. Identify, address and report environmental issues 1.7. Communicate with other personnel using approved communication methods 1.8. Adhere to emergency procedures to ensure safety of personnel, plant and equipment
2. Minimise dust creation	2.1. Select and apply appropriate dust suppression method 2.2. Reduce dust creation by instigating rehabilitation measures to stabilise dumps and tailings sites

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 suppress dust in open cut environment:

- apply legislative, organisation and site requirements and procedures
- apply decision making techniques
- apply vehicle directions and signals
- apply equipment cleaning requirements and procedures
- apply equipment maintenance requirements and procedures
- apply equipment operating requirements and procedures
- apply instructions
- apply hazard identification procedures
- interpret plans, reports, maps, specifications
- apply records maintenance requirements
- apply safe work practices
- apply troubleshooting techniques
- wear protective equipment

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 suppress dust in open cut environment:

- emergency procedures
- environmental aspects
- equipment processes, technical capability and limitations
- equipment safety requirements
- geological and technical data (rock formation)
- maintenance procedures
- mine operation system
- OHS procedures
- plan terminology
- site procedures (operational and maintenance)
- site safety requirements
- sprinkler operation
- water truck operation

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 suppressing of dust in open cut environment • implementation of requirements, procedures and techniques for the safe, effective and efficient suppressing of dust in open cut environment • working with others to suppress dust in open cut environment that meets all of the required outcomes • consistent timely suppressing of dust in open cut environment 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 suppress dust in open cut environment
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 • codes of practice • Employment and Workplace Relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Dust suppression methods may include:	• chemical • equipment operating techniques • vegetation • sprinklers • water truck sprays (staggered, continuous)
Environmental issues may include:	• culturally-sensitive sites and artefacts • drainage • dust/emissions • flora and fauna • hazardous chemicals • heritage legislation • noise • runoff • spills • water quality
Rehabilitation may include:	• company environmental guidelines and processes • dimension of site • fertiliser • flora and/or seeding requirements • personnel requirements • re-contouring plans • survey information • types of reticulation systems • types of vehicles

Unit Sector(s)

Materials Extraction

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.