



Australian Government

Department of Education, Employment and Workplace Relations

RIIMPO403A Monitor interaction of heavy and light vehicles and mining equipment

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers monitoring the interaction of heavy and light vehicles and mining equipment in the coal and metalliferous mining and extractive industries. It includes: planning and preparing; monitoring vehicles and equipment; and monitoring and reviewing operations.

Application of the Unit

This unit is appropriate for those working in a supervisory or technical specialist role, 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

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>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.</p>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare for monitoring	1.1. Access, interpret and apply compliance documentation relevant to interaction of vehicles and mining equipment 1.2. Identify and record site requirements for the interaction of transport systems and equipment 1.3. Access and interpret the specifications for the required transport systems and equipment 1.4. Identify, clarify and communicate roles and responsibilities 1.5. Access and interpret standard operating procedures
2. Monitor vehicles and equipment	2.1. Monitor effectiveness of policies, plans, procedures and workplace practices against objectives, timelines, key performance indicators and regulations 2.2. Validate use of vehicles and equipment and record in accordance with the project specifications 2.3. Identify hazards associated with interaction of transport and equipment and evaluate and respond to risks in accordance with established procedures 2.4. Monitor interaction of vehicles and mining equipment to ensure optimum efficiency 2.5. Monitor hazards associated with interaction of vehicles and mining equipment in accordance with workplace procedures
3. Monitor and review operations	3.1. Monitor the impact of contingencies 3.2. Use available information from monitoring processes to ensure accurate problem identification 3.3. Obtain specialist advice/assistance where required 3.4. Manage the impact of contingencies 3.5. Implement rectification requirements

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 monitor the interaction of heavy and light vehicles and mining equipment:

- apply legislative, organisation and site requirements and procedures
- apply techniques to develop responsibility/motivation
- manage policy
- apply interpersonal skills
- liaise with other parties
- coordinate others
- manage information
- solve problems
- analyse operational problems
- use measuring equipment
- write clear reports
- facilitate meetings

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 monitor the interaction of heavy and light vehicles and mining equipment:

- accuracy and precision requirements
- limitations of transport, mobile plant and equipment systems
- functions of vehicles and mine equipment
- capabilities and limitations of equipment and vehicles
- project reporting guidelines
- risk management principles
- company organisation
- work role definitions
- reporting methods and alternatives
- relevant regulations, licenses and permits
- emergency procedures and obligations
- community expectations
- consultative strategies
- alternative documentation systems for procedures

Evidence Guide

<p>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.</p>	
<p>Overview of assessment</p>	
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>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:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for monitoring the interaction of heavy and light vehicles and mining equipment • implementation of appropriate procedures and techniques for the safe, effective and efficient monitoring of the interaction of heavy and light vehicles and mining equipment • working with others to plan, prepare, conduct and monitor the interaction of heavy and light vehicles and mining equipment • provision of clear and timely instruction and supervision by the individual of those involved in the interaction of heavy and light vehicles and mining equipment • evidence of the consistent successful monitoring of the interaction of heavy and light vehicles and mining equipment
<p>Context of and specific resources for assessment</p>	<ul style="list-style-type: none"> • 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

	<p>environment to sensitively accommodate cultural diversity.</p> <ul style="list-style-type: none"> • 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.
<p>Method of assessment</p>	<p>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:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • implementation of appropriate procedures and techniques for the safe, effective and efficient achievement of the required outcomes • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • working with others to plan, prepare, conduct and monitor the interaction of heavy and light vehicles and mining equipment • provision of clear and timely instruction and supervision by the individual of those involved in the conduct of the interaction of heavy and light vehicles and mining equipment
<p>Guidance information for</p>	<p>Consult the SkillsDMC User Guide for further</p>

assessment	information on assessment including access and equity issues.
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Range Statement

<p>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.</p>	
<p>Relevant compliance documentation may include:</p>	<ul style="list-style-type: none"> • 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
<p>Vehicles may include:</p>	<ul style="list-style-type: none"> • all machines involved in production or those that have access to the operational and trafficable areas at the mine site
<p>Equipment may include:</p>	<ul style="list-style-type: none"> • mobile plant heavy earth moving equipment • water and service machines • 4 wheel drive passenger vehicles , including: <ul style="list-style-type: none"> • cars • buses • equipment systems, e.g. trailers and floats
<p>Policies, plans and procedures may include:</p>	<ul style="list-style-type: none"> • organisational commitment • community consultation and involvement • objectives and targets • surveying program • documentation and records • operational and emergency procedures • responsibility and reporting structure • work environmental impact, regulatory and legal compliance • reviews/audits • significant incident alerts
<p>Hazard is defined as:</p>	<ul style="list-style-type: none"> • a source of potential harm or a situation with a potential to cause loss
<p>Risk is defined as:</p>	<ul style="list-style-type: none"> • the chance of something happening that will have an impact upon objectives. It is measured in terms of consequences and likelihood

Contingencies may include:	<ul style="list-style-type: none">• vehicle and equipment failure• observation errors• operator error• movement of plant or ground• weather• obstructions• changing environment• visibility• parking• overhead power
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Unit Sector(s)

Mobile Plant Operations

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.