



Australian Government

Department of Education, Employment and Workplace Relations

RIIMPO201A Operate roller/compactor underground

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers operating rollers and/or compactor in underground metalliferous mines. It includes: planning and preparing for operations; compacting material; and carrying out operator maintenance and housekeeping activities.

Application of the Unit

This unit is appropriate for those working in mobile plant operator roles, in underground operations, within:

- 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. Plan and prepare for operations	1.1. Access, interpret and apply compliance documentation relevant to operating rollers and compactors in underground metalliferous mines 1.2. Receive, interpret and clarify shift changeover details 1.3. Select personal protective equipment appropriate for work activities 1.4. Select appropriate type of equipment according to job type and specifications to maximise efficiency and effectiveness of work activities 1.5. Perform equipment pre-start checks 1.6. Inspect and assess site conditions to determine if scaling is required and take action according to site requirements 1.7. Identify, address and report potential hazards and risks 1.8. Carry out start-up procedures 1.9. Identify, address and report environmental issues 1.10. Adhere to emergency procedures in case of fire and/or accident 1.11. Use approved dust suppression and extraction methods 1.12. Ensure area is well ventilated before entry into work area
2. Compact material	2.1. Operate equipment safely within work environment, limitations and road conditions, observing safe driving conventions 2.2. Identify, remove and dispose of contaminants 2.3. Communicate with other equipment operators and personnel using approved communication methods 2.4. Monitor and manage equipment performance using appropriate indicators to aid efficient operations 2.5. Maintain safety of site by implementing

	appropriate safety provisions 2.6. Complete all required documentation clearly, concisely and on time 2.7. Pass on end of shift information to oncoming shift
3. Carry out operator maintenance	3.1. Visually inspect equipment and find faults according to manufacturer's specifications and site requirements 3.2. Service and make minor adjustments to equipment 3.3. Conduct routine operational servicing to ensure peak performance of equipment
4. Conduct housekeeping activities	4.1. Clean equipment to maintain condition of equipment and ensure safe and efficient operations 4.2. Clean and store auxiliary service equipment

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 operate rollers and/or compactors in underground metalliferous mines:

- apply legislative, organisation and site requirements and procedures
- interpret ground conditions
- apply safe work practices
- apply procedures for operating, maintaining and cleaning equipment
- use hand and power tools
- apply safe and effective driving techniques
- apply towing requirements and procedures
- apply vehicle refuelling requirements and procedures

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 operate rollers and/or compactor in underground metalliferous mines:

- compacting procedures
- environmental procedures
- equipment parking
- equipment processes, technical capability and limitations
- equipment safety requirements
- geological and technical data (basic)
- hazardous goods procedures (handling and transport)
- isolation procedures
- manufacturer's specifications
- mining regulations
- operational procedures and checks
- primary and secondary ventilation
- site procedures
- start-up and shutdown procedures
- surface maintenance techniques
- underground procedures
- driving regulations, rules and conventions
- towing methods
- vehicle refuelling procedures

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 operating rollers and/or compactor in underground metalliferous mines • implementation of requirements, procedures and techniques for the safe, effective and efficient operating of rollers and/or compactor in underground metalliferous mines • working with others to operate rollers and/or compactor in underground metalliferous mines that meets all of the required outcomes • consistent timely operating of rollers and/or compactor in underground metalliferous mines 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 operate rollers and/or compactor in underground metalliferous mines
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
Rollers and compactors may include:	- rollers - tractors - dozer - front end loader with roller - smooth drum - vibrating - multi tyred - grid - sheep foot
Start-up procedures may include:	- correct location of equipment - safety mechanisms operational (horn, operating lights) - vehicle is left secured
Environmental issues may include:	- dust - fumes - noise - water
Dust suppression and extraction methods may include:	- mobile/fixed sprays - screens (vent doors, vent blinds) - use of water trucks - ventilation bags operational - watering down site
Materials may include:	- geo textiles materials - gravel - ore

	• overburden • oxidised waste • rejects • road base • rubbish • sand • sulphide rock fill • tailings
Safe driving conventions may include:	• speed limits • mine lighting • site vehicle identification lights • right of way • parking in stockpiles • parking on incline/decline • refuelling procedures • rules at intersections • driving regulations, rules and conventions • towing methods
Contaminants may include:	• cigarette butts • consumables • ear plugs • explosives • metal bucket teeth • metal or steel rods • old piping • old workings • plastic • timber • wet fill
Equipment performance may be affected by:	• duration of operation • efficient and safe operating speed • operating limitations • type of activities performed • weight and/or load limitations
Indicators may include:	• brake air pressure • brake oil temperature • computer indicators • engine oil pressure • fuel filter • parking brake • retarder

	• service meter • speedometer/odometer • steering filters • tachometer • torque converter oil temperature • transmission filter • voltmeter/ ammeter • water temperature
Operational servicing may include:	• checking fluid levels • filter changing • greasing • keeping cab clean • tightening loose fittings
Cleaning methods may include:	• degreasing • forced air • steam cleaning • vacuum • water

Unit Sector(s)

Mobile Plant Operations

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.