



Australian Government

Department of Education, Employment and Workplace Relations

RIIVEH306A Operate mine service vehicle

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the operation of mine services vehicles in the resources and infrastructure industries. It includes planning and preparing for mine services vehicle operations, conducting mines service vehicle activities, carrying out operator maintenance, conducting housekeeping activities. Licensing, legislative, regulatory and certification requirements that apply to this unit can 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 operational role at worksites 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. Plan and prepare for mine services vehicle operations	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Receive, interpret and clarify shift changeover details 1.3. Select appropriate type and capacity of equipment and/or attachments according to job specifications 1.4. Identify, address and report potential risks and hazards 1.5. Select personal protective equipment appropriate for work activities 1.6. Conduct equipment pre-start checks to ensure equipment is ready for operation 1.7. Identify, address and report environmental issues 1.8. Communicate with other personnel using approved communication methods 1.9. Adhere to emergency procedures to ensure safety of personnel, plant and equipment
2. Conduct mine service vehicle activities	2.1. Carry out start-up, park and shutdown procedures 2.2. Operate equipment within recommended speed, engine capability and limitations 2.3. Monitor equipment performance utilising appropriate indicators to aid efficient operations 2.4. Manoeuvre equipment to maximise efficiency and ensure safety of other equipment and personnel 2.5. Complete work according to agreed work plan and outcomes
3. Carry out operator maintenance	3.1. Conduct visual inspection and fault finding 3.2. Conduct routine operational servicing to ensure peak performance of equipment
4. Conduct housekeeping activities	4.1. Clean equipment 4.2. Clean and store attachments and other ancillary equipment 4.3. Complete all required records and

	documentation accurately and promptly
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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 operate a mine services vehicle:

- apply legislative, organisation and site requirements and procedures for operating a mine service vehicle
- apply diagnostic techniques
- evaluate ground conditions
- interpret plans, reports, maps, specifications
- maintain records
- follow safe work practices
- select and use protective equipment
- use communication equipment
- use hand and power tools

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 operate a mine services vehicle:

- emergency procedures
- equipment processes, technical capability and limitations
- hauling procedures and operating conditions in the work environment
- hazardous goods procedures
- isolation procedures
- operational procedures and checks
- personnel transport procedures
- site safety requirements
- towing 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 a mine service vehicle • implementation of requirements, procedures and techniques for the safe, effective and efficient operation of a mine service vehicle • working with others to undertake and operate a mine service vehicle that meets all of the required outcomes • consistent timely operation of a mine service vehicle 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 should 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 requirements, 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 operate a mine services vehicle
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.

Compliance documentation may include:	• legislative, organisation and site requirements and procedures, including (but not limited to): • mining safety and health • mine inspection • OHS • explosives • manufacturer's guidelines and specifications • Australian standards • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Mine service vehicles may include:	• backhoe • skid steer • tractor
Potential risks and hazards may include:	• abandoned equipment • adjoining pit walls • adverse weather conditions (electrical storms, floods, fires) • chemicals • equipment • fences • holes • materials • over-hanging rocks • personnel • pot holes • unsafe ground • unstable faces • vehicles • contaminants including: • animal carcasses (sheep, cows, kangaroos) • cigarette butts • consumables

	• ear plugs • metal bucket teeth • metal or steel rods • old fencing • old piping • plastic • timber
Capacity of equipment and/or attachments may include:	• duration of operation • efficient and safe operating speed • operating limitations • type of activities performed • weight and/or load limitations
Equipment pre-start checks may include:	• air filter restriction indicator • cab (horn, lights, air conditioner) • computer systems • display instrumentation and gauges (indicators, gauges, laser levels) • engine and stop engine lights (orange and red) • fluid levels (windscreen washer tank, hydraulic oil, coolant, grease, water, engine oil, fuel) • visual and audio warning devices and lights
Environmental issues may include:	• culturally-sensitive sites and artefacts • drainage • dust • emissions • flora and fauna • hazardous chemicals • heritage legislation • noise • runoff • spills • water quality
Start-up, park and shutdown procedures may include:	• correct location of equipment • safety mechanisms operational (horn, operating lights) • vehicle is left secured
Indicators may include:	• brake oil temperature • engine oil pressure • brake air pressure • water temperature • service meter

	• voltmeter • torque converter oil temperature • tachometer • speedometer/odometer • parking brake • steering filters • transmission filter • fuel filter • retarder • computer indicators
Visual inspection and fault may include:	• cab condition (no rags in air conditioner vent, dirt around brake and accelerator pedals, seat condition, all gear secured) • cab mounts • damage to equipment • danger tags • engine oil to be checked before starting engine • fire suppression unit (pins in position in triggers) • grease lines • light positioning and cleanliness • no combustible material around exhaust • oil leaks (engine, hydraulic hoses, ground) fuel leaks (engine, on ground), water • leaks (radiator, hoses) • personal proximity • portable fire extinguisher (bracket, gauge, hose, ease of access) • radiator top up tank • tyres and rim condition • vehicle number • wheel nuts and studs • windows (clean, emergency exit tag in place)
Routine operational servicing may include:	• checking fluid levels • filter changing • greasing • keeping cab clean • tightening loose fittings • cleaning including: • degreasing • forced air • steam cleaning

	• vacuum • water
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Unit Sector(s)

Vehicle Operations

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.