

## RIIVEH201A Unit Descriptor

## Operate light vehicle

This unit covers the operation of a light vehicle in the resources and infrastructure industries. It includes planning and preparing for operations, operating a light vehicle, and carrying out operator maintenance. 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.

### Employability Skills

This unit contains employability skills.

### Application of the Unit

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

- Civil construction
- Coal mining
- Drilling
- Extractive industries
- Metalliferous mining

### Unit Sector

Vehicle Operations

### ELEMENT

### PERFORMANCE CRITERIA

- |                                    |  |
|------------------------------------|--|
| 1. Plan and prepare for operations | <p>1.1 Access, interpret and apply <b>compliance documentation</b> relevant to the work activity</p> <p>1.2 Obtain, interpret and clarify <b>information, work requirements and details</b></p> <p>1.3 Access and apply <b>safety information and procedures</b> when planning <b>light vehicle</b> operations</p> <p>1.4 Select appropriate types of equipment and attachments according to job specifications to maximise efficiency and effectiveness</p> <p>1.5 Identify, address and report potential <b>hazards and risks</b></p> <p>1.6 Select appropriate personal protective equipment for planned work activities</p> <p>1.7 Identify, address and report environmental issues</p> |
| 2. Operate a light vehicle         | <p>2.1 Carry out <b>pre-start, start-up, park-up</b> and <b>shutdown</b> procedures</p> <p>2.2 Operate light vehicle with or without ancillary attachments</p> <p>2.3 Operate equipment within recommended speed, engine capability and limitations</p> <p>2.4 Operate ancillary attachments to the light vehicle</p> <p>2.5 Use vehicle lights and <b>indicators</b> in accordance with traffic regulations</p> <p>2.6 Identify and respond appropriately to hazardous and/or emergency driving situations</p> <p>2.7 Complete light vehicle operations according to work plan</p>  |

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|----|--------------------------------|-----|---|
| 3. | Carry out operator maintenance | 3.1 | Conduct <b>visual inspections</b> to identify faults                        |
|    |                                | 3.2 | Conduct <b>routine operational servicing</b> and housekeeping activities    |
|    |                                | 3.3 | Carry out minor maintenance and repairs                                     |
|    |                                | 3.4 | Report defective or irregular performance to relevant authorities           |
|    |                                | 3.5 | Maintain and update vehicle records in accordance with workplace procedures |

## REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level, 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 light vehicle:

- apply legislative, organisation and site requirements and procedures for the operation of light vehicles
- match ancillary equipment with appropriate tasks
- communicate effectively with others to coordinate light vehicle operations
- diagnose vehicle instrumentation readings and vehicle faults
- maintain vehicle records
- plan and organise work tasks
- resolve maintenance and repair issues
- interpret plans, reports, maps, schedules and specifications

### 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 light vehicle:

- basic mine geological and survey data
- types of communication systems and equipment
- driving hazards and related defensive driving techniques
- equipment and trailer characteristics, technical capabilities and limitations
- fatigue management techniques
- light vehicle maintenance requirements/procedures
- loading/offloading procedures
- map reading and road navigation techniques
- relevant road rules, regulations, permit and licence requirements of the relevant state/territory road traffic authority

## 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
- manufacturer's guidelines and specifications
- Australian standards
- relevant State/Territory environmental protection legislation
- relevant State/Territory fatigue management regulations
- relevant State/Territory OHS legislation
- relevant State/Territory permit regulations and requirements
- relevant State/Territory road rules
- Employment and workplace relations legislation
- Equal Employment Opportunity and Disability Discrimination legislation

**Information** may include:

- geological and survey data
- work plans
- manufacturer's instructions

**Work requirements and details** may include:

- achievement targets
- coordination requirements/issues
- equipment defects
- handover details
- hazards and potential hazards
- nature and scope of work
- route
- shift briefings
- site lighting arrangements
- vehicle identification
- work orders
- working conditions

**Safety information and procedures** may include:

- use of seat belts
- security of door
- conditions of brakes and braking system (air pressure)
- load characteristics
- vehicle speed
- fluid levels

**Light vehicles** may include:

- vehicles up to 4.5 tonne GVM
- vehicles carrying up to 12 passengers
- single or multiple drive

**Hazards and risks** may include:

- abandoned equipment
- adjoining pit walls
- adverse weather conditions (electrical storms, floods, fires)
- animals and objects on road
- chemicals
- contaminants
- equipment
- faulty brakes
- faulty steering mechanism on vehicle
- fences
- fire in vehicle
- flooded sections of road
- foggy conditions
- holes
- leaking fuel
- materials
- oil on road
- over-hanging rocks
- parked vehicles on the road
- pedestrians crossing the road
- pot holes
- unsafe ground
- unstable faces
- vehicles
- wet and iced roads
- windy sections of road
- worksite hazards

**Pre-start, start-up and shutdown checks** may include:

- air filter restriction indicator
- cab (horn, lights, air conditioner)
- computer systems
- display instrumentation and gauges
- engine and stop engine lights
- fluid levels (windscreen washer tank, hydraulic oil, coolant, grease, water, engine oil, fuel)
- visual and audio warning devices and lights
- vehicle handling procedures may include:
  - accelerating and braking
  - managing engine performance
  - operating vehicle controls, instruments and indicators using air brakes
  - positioning and stopping a vehicle
  - reversing a vehicle
  - starting a vehicle
  - steering and manoeuvring a vehicle
  - using defensive driving techniques

**Shutdown procedures** may include:

- safety mechanisms operational (horn, operating lights)
- vehicle is left secured

**Indicators** may include:

- brake air pressure
- brake oil temperature
- computer indicators
- engine oil pressure
- fuel filter
- oil temperature
- parking brake
- retarder
- service meter
- speedometer/odometer
- steering filters
- tachometer
- torque converter
- transmission filter
- voltmeter
- water temperature

**Visual inspection** 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
- engine oil to be checked before starting engine
- fire suppression unit (pins in position in triggers)
- grease lines
- isolation and lock-out
- 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
- degreasing
- forced air
- steam cleaning
- vacuum

## 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 light vehicle
- implementation of requirements, procedures and techniques for the safe, effective and efficient operation of a light vehicle
- working with others to undertake and complete the operation of light vehicles that meets all of the required outcomes
- consistent timely completion of the operation of light vehicles that safely, effectively and efficiently meet 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 complete the operation of light vehicles

**Guidance information for assessment**

Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.