

RIIVEH202A	Operate a medium vehicle
Unit descriptor	This unit covers the operation of medium vehicles in the resources and infrastructure industries. It includes planning for operations, operating a medium 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: <ul style="list-style-type: none"> • Civil construction • Coal mining • Drilling • Extractive industries • Metalliferous mining
Competency field	Vehicle Operations

ELEMENT	PERFORMANCE CRITERIA
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.
1. Plan for operations	<ol style="list-style-type: none"> 1.1. Access, interpret and apply compliance documentation relevant to operating medium vehicles 1.2. Obtain, interpret and confirm work requirements from shift briefings, handover details or work orders before proceeding with operations 1.3. Assess and apply safety information and procedures throughout the operations 1.4. Identify, address and report potential hazards and risks 1.5. Prepare medium vehicle records and carry out log-on procedures 1.6. Conduct pre-start checks and start-up checks on medium vehicle and ancillary equipment
2. Operate medium vehicle	<ol style="list-style-type: none"> 2.1. Steer, manoeuvre and position vehicle in accordance with traffic regulations and site manager's rules 2.2. Carry out movements within limits of vehicle and road dimensions 2.3. Operate ancillary attachments to the medium vehicle in accordance with manufacturer's instructions and site procedures 2.4. Ensure that all movements are smooth and controlled 2.5. Manage engine power to ensure efficiency of vehicle movement and to minimise damage to the engine and drive line 2.6. Avoid contact with obstacles 2.7. Ensure no injury to personnel or damage to property, equipment or facilities, and load
3. Carry out operator	<ol style="list-style-type: none"> 3.1. Carry out equipment inspections and fault finding in accordance with manufacturer's instructions and site requirements 3.2. Carry out routine operational servicing, lubrication and housekeeping tasks

ELEMENT	PERFORMANCE CRITERIA
	3.3. Carry out minor maintenance to manufacturer's instructions and site requirements 3.4. Provide operator support during preparation for, and conduct of, major maintenance tasks in accordance with site requirements 3.5. Process records in accordance with site 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 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 medium vehicle:

- apply legislative, organisation and site requirements and procedures for operating a medium vehicle
- access, read and interpret technical information, including manufacturer's manuals
- operate medium rigid vehicles within specifications and limitations
- steer, manoeuvre and position vehicles
- identify and report faults in vehicles and ancillary equipment
- complete appropriate vehicle records and documentation
- use efficient driving techniques
- read instructions, procedures and signage relevant to driving a medium rigid vehicle
- map reading and road navigation techniques
- monitor and anticipate traffic hazards and take appropriate action

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 medium vehicle:

- site requirements related to medium rigid vehicle operations
- OHS requirements related to medium rigid vehicle operations
- methods of securing loads
- site transport operations
- operations, characteristics and limitations of medium rigid vehicles and ancillary equipment
- site vehicle related records and documentation system
- relevant road rules, regulations, permit and licence requirements of the relevant state/territory road traffic authority
- medium rigid vehicle controls, instruments and indicators and their use
- procedures to be followed in the event of a driving emergency
- efficient driving techniques
- differences between transmission types
- principles of operation of air brakes and procedures for their use

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

RANGE STATEMENT	
	<ul style="list-style-type: none"> • relevant State/Territory road rules • relevant State/Territory OHS legislation • relevant State/Territory fatigue management regulations • relevant State/Territory environmental protection legislation • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Medium vehicles may include:	<ul style="list-style-type: none"> • fuel and service vehicles • crane trucks (vehicle loading crane) • table tops • highway tippers • water tankers • fire engines • explosive carriers • any 2-axle rigid vehicle, including truck and bus greater than 8 tonnes GVM
Work requirements may include:	<ul style="list-style-type: none"> • achievement targets • coordination requirements/issues • equipment defects • handover details • hazards and potential hazards • identification/allocation • medium vehicle • nature and scope of work • route • shift briefings • site lighting arrangements • work orders • working conditions
Safety information and procedures may include:	<ul style="list-style-type: none"> • use of seat belts • security of door • conditions of brakes and braking system (air pressure) • load characteristics • vehicle speed • fluid levels • safety requirements, including: <ul style="list-style-type: none"> ◦ use of authorised cargo restraining equipment ◦ observing authorised parking areas ◦ correct distances between vehicles ◦ observing site traffic rules ◦ passenger safety and control ◦ load security and safety ◦ transport rules ◦ operations signals procedures
Hazards and risks may include:	<ul style="list-style-type: none"> • wet and iced roads • oil on road • animals and objects on road • fire in vehicle

RANGE STATEMENT	
	<ul style="list-style-type: none"> • leaking fuel • faulty brakes • parked vehicles on the road • faulty steering mechanism on vehicle • pedestrians crossing the road • flooded sections of road • windy sections of road • foggy conditions
Vehicle records may include:	<ul style="list-style-type: none"> • manual or electronic data collection systems • log-on/off, activity recording • trip records • refueling information
Site requirements may include:	<ul style="list-style-type: none"> • observing site traffic rules • observing authorised parking areas • correct distances between vehicles
Pre-start checks may include:	<ul style="list-style-type: none"> • fluid levels, including fuel, engine oil, brake fluids, coolant, clutch/transmission fluid and windscreen washer fluid • windows and mirrors for clear visibility • tyres and wheels (air pressure, tyre damage, illegal tread depth and condition, abnormal wear pattern and tyre compatibility) • fan belts • seat belts • door hatches and latches • battery and connections • visible and current registration and licences • spare wheel • wheel nuts • wheel chocks and wedges • rear guards • warning horn • power take off
Start-up checks may include:	<ul style="list-style-type: none"> • lights (headlights, clearance lights, indicators, hazard lights, reversing lights) • brakes • heating and ventilation • instruments and gauges • windscreen washers and wipers • pneumatic system including hydraulic hoses and hose connections
Manage engine power may include:	<ul style="list-style-type: none"> • selecting gear ratio to achieve smooth take-off • changing gears to maintain specified torque range at all speeds • utilising engine retarder
Faults may include:	<ul style="list-style-type: none"> • loose/leaking air brake and hose fitting • excessive wear in suspension system • overheating: <ul style="list-style-type: none"> ◦ coolant ◦ exhaust ◦ drive-line

RANGE STATEMENT	
	<ul style="list-style-type: none">◦ low oil temperature◦ electrical discharge/overcharge◦ low air pressure◦ ancillary systems◦ abnormal emissions
Manufacturer's instructions may include:	<ul style="list-style-type: none">● engine crank● idling● engine RPM● operating temperatures● torque range

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	<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 operating a medium vehicle • implementation of requirements, procedures and techniques for the safe, effective and efficient operation of medium vehicles • working with others to undertake and operate a medium vehicle in a way that meets all of the required outcomes • consistent timely operation of medium vehicles that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	<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. • 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

EVIDENCE GUIDE	
	<p>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 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: <ul style="list-style-type: none"> ◦ working with others to undertake and operate medium vehicles
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.