



Australian Government

Department of Education, Employment and Workplace Relations

TLIC507D Drive heavy combination vehicle

Release: 1

TLIC507D Drive heavy combination vehicle

Modification History

Not applicable.

Unit Descriptor

This unit involves the skills and knowledge required to drive a heavy combination vehicle safely including systematic and efficient control of all vehicle functions, monitoring of traffic and road conditions, management of vehicle condition and performance, coupling and uncoupling of trailer, and effective management of hazardous situations. Assessment of this unit may be undertaken within a licensing examination conducted, by or under the authority of, the relevant state/territory Road Traffic Authority.

Application of the Unit

Driving must be carried out in compliance with the licence requirements and regulations of the relevant state/territory roads and traffic authority pertaining to heavy combination vehicles.

Driving is performed with limited or minimum supervision, with limited accountability and responsibility for self and others in achieving the prescribed outcomes.

Driving involves the application of routine vehicle driving principles and procedures to maintain the safety and operation of a commercial heavy combination vehicle across a variety of driving contexts.

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Not applicable.

Employability Skills Information

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this competency is packaged will assist in identifying employability skill requirements.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

Elements and Performance Criteria

Element	Performance Criteria
1 Drive the heavy combination vehicle	<ul style="list-style-type: none">1.1 The heavy combination vehicle is started, steered, manoeuvred, positioned and stopped in accordance with traffic regulations and manufacturers instructions1.2 Engine power is managed to ensure efficiency and performance and to minimise engine and gear damage1.3 Engine operation is maintained within the manufacturer's specified torque range and temperature through effective gear selection and smooth transition in gear changes1.4 Braking system of heavy combination vehicle is managed and operated to ensure effective control of the vehicle under all conditions1.5 Driving hazards are identified and/or anticipated and avoided or controlled through defensive driving1.6 The heavy combination vehicle is driven in reverse, maintaining visibility and achieving accurate positioning1.7 The heavy combination vehicle is parked, uncoupled, shut down and secured in accordance with manufacturers specifications, traffic regulations and workplace procedures1.8 Where required, overwidth and overweight permit applications are undertaken in accordance with relevant regulatory requirements1.9 Appropriate signage, lights and the like are checked for operational effectiveness and for

- conformity to prescribed traffic regulations
- 1.1 Appropriate procedures are followed in the event of a driving emergency
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- 2 **Monitor traffic and road conditions**
- 2.1 The most efficient route of travel is taken through monitoring and anticipation of traffic flows and conditions, road standards and other factors likely to cause delays or route deviations
- 2.2 Traffic and road conditions are constantly monitored and acted upon to enable safe operation and ensure no injury to people or damage to property, equipment loads and facilities
- 3 **Monitor and maintain vehicle performance**
- 3.1 Vehicle performance is maintained through pre-operational inspections and checks of the vehicle
- 3.2 Prime mover and trailer are aligned and coupled in accordance with manufacturers instructions and workplace procedures
- 3.3 Coupled vehicle is checked and tested to ensure it is correctly secured and to confirm that it is fully operational
- 3.4 Performance and efficiency of vehicle operation is monitored during use
- 3.5 Defective or irregular performance or malfunctions are reported to the appropriate authority
- 3.6 Vehicle records are maintained/updated and information is processed in accordance with workplace procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

Relevant road rules, regulations, permit and licence requirements of the relevant state/territory road traffic authority

Relevant OH&S and environmental procedures and regulations

Heavy combination vehicle controls, instruments and indicators and their use

Heavy combination vehicle handling procedures

Workplace driving and operational instructions

Procedures to be followed in the event of a driving emergency

Engine power management and safe driving strategies

Efficient driving techniques

Pre-operational checks carried out on heavy combination vehicle and related action

Differences between transmission types

Principles of operation of air brakes and procedures for their use

Driving hazards and related defensive driving techniques

Map reading and navigation of the vehicle and related action

Factors which may cause traffic delays and diversions and related action that can be taken by a driver

Principles of stress management when driving a vehicle

Causes and effects of fatigue on drivers

Factors which increase fatigue-related accidents

Fatigue management strategies including on-road techniques

Lifestyles which promote the effective long-term management of fatigue

Required skills:

Communicate effectively with others when driving a heavy combination vehicle

Read and interpret instructions, procedures, information and signs relevant to the driving of a heavy combination vehicle

Interpret and follow operational instructions and prioritise work

Complete documentation related to the driving of a heavy combination vehicle

Operate electronic communication equipment to required protocol

Work collaboratively with others when driving a heavy combination vehicle

Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others

Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when driving a heavy combination vehicle in accordance with regulatory requirements and workplace procedures

Implement contingency plans for unexpected events that may arise when driving a heavy combination vehicle

Apply precautions and required action to minimise, control or eliminate hazards that may exist during work activities

Monitor and anticipate traffic hazards and take appropriate action

Modify activities depending on differing operational contingencies, risk situations and environments

Apply fatigue management knowledge and techniques

Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment

Operate and adapt to differences in equipment in accordance with standard operating procedures

Apply map reading and road navigation techniques to the operation of a heavy combination vehicle

Select and use required personal protective equipment conforming to industry and OH&S standards

Monitor performance of vehicle, its trailers and its equipment and take appropriate action where required

Check and replenish fluids and carry out lubrication processes in the course of work activities

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

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 and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:

the underpinning knowledge and skills

relevant legislation and workplace procedures

other relevant aspects of the range statement

Context of and specific resources for assessment

Performance is demonstrated consistently over a period of time and in a suitable range of contexts

Resources for assessment include:

a range of relevant exercises, case studies and other simulated practical and knowledge assessment, and/or

access to an appropriate range of relevant operational situations in the workplace

In both real and simulated environments, access is required to:

relevant and appropriate materials and/or equipment, and/or

applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

Assessment of this unit must be undertaken by a registered training organisation

As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests

Practical assessment must occur:

through appropriately simulated activities at

the registered training organisation, and/or
in an appropriate range of situations in the
workplace

Range Statement

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.

Type of vehicle includes:	all heavy combination vehicles that may be driven on public and private roads and work sites
Driving may be carried out in typical road transport situations, including:	operations conducted at day or night typical weather conditions on the open road on a private road while at a depot, base or warehouse while at a client's workplace or work site
Vehicle handling procedures may include:	starting a vehicle steering and manoeuvring a vehicle accelerating and braking positioning and stopping a vehicle reversing a vehicle operating vehicle controls, instruments and indicators using air brakes using defensive driving techniques managing engine performance
Pre-operational checks may include:	visual check of vehicle checking and topping up of fluid levels checks of tyre pressures checks of operation of vehicle lights and indicators checks of brakes checks of coupling equipment
Minor routine repairs may include:	replacement of blown globes in vehicle lights replacement of broken fan belt replacement of blown fuse

Driving hazards may include (examples only):

replacement of door mirrors
repairs to rear tail-light lens
changing of tyres
repair of tyre punctures
replacement of broken coolant hose
wet and iced roads
oil on road
animals and objects on road
fire in vehicle
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
work site hazards including power and service lines, buildings, structures, facilities, underground services, uneven or unstable ground and recently filled trenches, stationary and moving machinery and equipment, hazardous or dangerous materials, noise, light, energy sources, and obstructions

Factors that can cause traffic delays and diversions may include (examples only):

traffic accidents
flooded sections of road
road damage
bridge/tunnel damage
road works
building construction
emergency situations such as bushfires, building fires, etc.
road closures for special events such as marches, parades, sporting events, etc.
holiday traffic

	road closures for utility works such as electricity, water, sewerage, telecommunications, gas, etc.
Depending on the type of organisation concerned and the local terminology used, workplace procedures may include:	company procedures enterprise procedures organisational procedures established procedures
Documentation/records may include:	state/territory heavy combination vehicle driving licence/permit requirements state/territory road rules workplace driving instructions and procedures vehicle manufacturers instructions, specifications and recommended driving procedures including preoperational checks of vehicle emergency procedures vehicle log book or record book (where required)
Applicable procedures and codes may include:	relevant state/territory roads and traffic authority driving regulations and licence requirements pertaining to heavy combination vehicles relevant state/territory road rules relevant state/territory permit regulations and requirements relevant state/territory OH&S legislation relevant state/territory fatigue management regulations relevant state/territory environmental protection legislation

Unit Sector(s)

Not applicable.

Competency Field

C - Driving Vehicle