

Change log

Section	Comment (major change)
Title	Unchanged
Application	
Pre-requisite Unit	N/A
Elements and Performance Criteria	Wording of several Performance criteria amended for clarity Performance criteria 2.1, 2.2, 2.3 consolidated. Detail is covered in performance and knowledge evidence Elements 3, 4, 5 and 6 combined. Much of content removed is underpinning knowledge already covered in knowledge evidence
Foundation Skills	Foundation skills information about unit has been added to a new TLI Foundation Skills Companion Volume
Range of Conditions	Removed. No longer a mandatory field
Performance Evidence	Reviewed to remove duplication and arranged and logical sequence.
Knowledge Evidence	Reviewed to remove duplication and arranged and logical sequence.
Assessment Conditions	RTO compliance with VET regulator requirements removed as it is unnecessary in the unit.
If no major change in any section	Text clarified without changing requirements

TLIC0036 Apply low risk heavy vehicle driving behaviours

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to apply low risk heavy vehicle driving behaviours.

It includes applying relevant legislation applicable to low risk operation of a heavy vehicle, inspecting vehicle and securing load for low risk transportation of goods/cargo, and applying low risk heavy vehicle driving behaviours. It also includes applying low risk heavy vehicle driving strategies, explaining risk factors that contribute to collisions or incidents when driving a heavy vehicle, and applying heavy vehicle operation and control skills.

This includes higher-order skills involving broad cognitive, technical, communication and vehicle management. It also requires knowledge about hazard perception, risk control and low risk driving behaviour, judgement, decision making and multi-tasking that builds on basic driver licence requirements across a nominated heavy vehicle class and driving situations.

This unit applies to heavy vehicle drivers required to apply low risk operating driving behaviours.

Low risk heavy vehicle driving behaviours are applied without supervision.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

To achieve a licence candidates should complete the TLI Licence to drive a heavy vehicle and check with the state/territory driver licensing authority for eligibility, including licence tenure, driving experience and medical fitness requirements.

Pre-requisite Unit

Not applicable.

Competency Field

C – Vehicle Operation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Apply relevant legislation applicable to low risk operation of a heavy vehicle

2 Inspect vehicle and secure load for low risk transportation of goods/cargo

3 Apply low risk driving behaviours in a heavy vehicle

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and safety (OHS) regulatory requirements are adhered to prior to driving to eliminate or control driving environment and equipment hazards

1.2 Relevant road rules and applicable heavy vehicle law and regulations are identified, interpreted and applied

2.1 Pre- and post-operational inspections and checks of vehicle and associated equipment are undertaken as required in accordance with road safety standards and manufacturer specifications

2.2 Load distribution and security is checked and secured in accordance with current load restraint guidelines and protection equipment

2.3 Load is checked to ensure dangerous goods (DG) and hazardous substances are segregated in accordance with the current Australian Dangerous Goods (ADG) Code

2.4 All required goods documentation is completed in accordance with workplace requirements and any applicable regulation

3.1 Requirements for low risk heavy vehicle driving are identified and applied

3.2 Low risk driving strategies are identified and applied

3.3 Road sharing principles are applied, including interacting with other road users and ensuring safe and efficient traffic flow, in accordance with road rules

3.4 Hazards and risks are identified, approached and negotiated using low risk driving techniques

- 3.5** Vehicle is maneuvered and speed managed using low risk driving techniques
- 3.6** Principles of heavy vehicle control are applied to a high level of technical competence
- 3.7** Contributing risk factors to potential collision risks are identified and taken into consideration

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the TLI Transport and Logistics Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is not equivalent to TLIC0033 Apply safe heavy vehicle driving behaviours.

Links

Assessment Requirements for TLIC0036 Apply low risk heavy vehicle driving behaviours

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and include:

- complying with relevant legislative, regulatory and workplace and operational procedures when driving a heavy vehicle
- carrying out pre- and post-operational checks and related action on heavy vehicles
- adapting to differences in heavy vehicles, including their operations, controls and safety devices to maximise safety and efficiency
- identifying, monitoring and anticipating traffic hazards and taking appropriate and timely action
- identifying risk factors that might impact on driving behaviours and implementing appropriate low risk driving response measures
- monitoring heavy vehicle performance and taking appropriate actions, as required
- applying road rules when driving in a low risk and legal manner
- applying techniques for hazard identification, and low risk approach and negotiation
- applying advanced observation and scanning techniques, including:
 - hazard awareness identification at short, mid and long ranges
 - removal of blind spot, natural eye blind spot and vision block out
 - selecting a legal and low risk lateral position in unlaned, multi-laned lanes, rural and urban roads
 - straight line driving, short, mid and long-range scanning techniques
- moving the vehicle from a stationary position on any incline and decline in an efficient, safe and legal manner while protecting the drive train
- negotiating left and right corners in a low risk and legal manner including:
 - bends with different cambers
 - laned
 - multi-turning lanes
 - unlaned
- negotiating roundabouts, straight, left, right and U-turns in a low risk and legal manner including:
 - laned
 - multi-turning lanes

- unlaned
- applying correct selection and application of a braking and gear system
- applying correct steering techniques to maximise stability and safety on rural and urban roads when turning or negotiating bends
- applying early position planning techniques that reduces braking distance on approach to hazards
- applying emergency threshold braking techniques to minimise braking distance while maintaining vehicle safety and control
- applying high-level road craft skills to maximise road surface traction, vehicle stability in a low risk manner
- changing gears on any incline and decline, maximizing vehicle control, safety, driveline protection and operational efficiency on rural and urban roads
- creating, adjusting and controlling 360-degree safety cushion to lower risk at all times
- diverging and merging left and right, in a low risk and legal manner, while maintaining maximum vehicle stability
- entering, exiting and traveling along a freeway in a low risk and legal manner
- making necessary adjustments to suit driving environment
- manoeuvring a heavy vehicle at slow speed
- reversing the vehicle in various directions while applying correct observation techniques and vehicle control in a low risk and legal manner
- selecting an appropriate speed and safety gap to lower risk when driving in adverse weather, hazard density and road conditions
- selecting and using vehicle controls and safety devices to enable low risk heavy vehicle driving
- selecting speed based on hazard density and legal requirements
- stopping the vehicle from variable speeds at a defined location in a safe, controlled and legal manner.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and include knowledge of:

- relevant laws, road rules, safety information, traffic safety legislation, jurisdictional requirements and penalties
- relevant workplace instructions, procedures and information
- purpose and benefits of road rules enforcement for low risk heavy vehicle driving
- road safety issues including heavy vehicle driver fatigue
- road signs, signals and markings meanings
- dangerous goods systems, requirements and regulation
- load restraint guidelines
- critical factors underpinning high-level heavy vehicle driving technical competence
- cognitive factors that may influence performance in heavy vehicle driving
- human factors that can influence low risk driving behaviour

- procedures for identifying and responding to hazards
- driving hazards and related low risk driving techniques
- range of heavy vehicle and trailer designs and capabilities
- additional equipment fitted to heavy vehicles
- roundabouts including straight, left, right and U-turns on laned and unlaned roads
- techniques, stability, legality and low risk requirements for diverging and merging
- left and right turn requirements on laned and unlaned roads
- position on road or lanes requirements for both laned and unlaned roads
- telematics systems
- types of driving conditions commonly encountered requiring correct selection of appropriate gears to avoid losing control of a heavy vehicle
- types of driving conditions commonly encountered requiring steering operation/control to maintain a heavy vehicle under adverse conditions
- rural and urban roadcraft including:
 - cornering and turning techniques including different cambers
 - different types of skids and recovery techniques
 - interpreting, adjusting and negotiating different road surfaces
 - multi-lane entry and exit
 - overtaking and passing other vehicles
 - road and lane position
 - speed scatter
- vehicle operation and control including:
 - cabin drill
 - in-vehicle technology
 - managing accelerator
 - managing brakes
 - managing steering
 - start, move off, shut down and secure
- factors contributing to collisions or incidents including:
 - age, experience, drugs, alcohol, medication, road conditions, fatigue and time of day
 - consequences of vehicle collisions or incidents
 - emotional factors, driver's own behaviours and driver's operation at high levels of risk
 - types of adverse driving conditions commonly encountered during driving activities, driver values, emotions, limitations and personal needs
- low risk driving behaviours including:
 - application of advanced observation and scanning techniques including:
 - procedures for identifying and responding to hazards
 - removal of blind spot, natural blind spot and vision block out
 - application of key techniques that reduce braking distance on approach to hazards
 - creating and maintaining collision and incident avoidance space technique

- early position selection on approach to hazards and risk reduction theories
- hazard approach and negotiation
- protecting collision and incident avoidance space
- speed selection based on hazard density and legal requirements
- cabin drill theory on vehicle operation and control including:
 - correct operation of controls
 - gear selection up and down, automatic or manual vehicles
 - identifying key information for information systems
 - application of in-vehicle technology
 - managing vehicle control pedals for efficiency, safety and feel
 - steering methods, hand over hand and pull push advantages and disadvantages
- efficient gear changes on any incline and decline, manual and automatic heavy vehicles, while protecting the drive train
- efficient heavy vehicle movement from a stationary position, manual and automatic, while protecting the drive train
- emergency threshold braking techniques to maximise stability and control
- heavy vehicle braking systems and techniques for use, such as maxi brakes, trailer brakes and exhaust brake system
- speed and the effect on vehicle handling, braking and cornering
- speed effect on vision, hazard awareness and mental processing
- starting and stopping the vehicle in a safe and efficient manner
- steering operation and control
- functions of vehicle operations and control and how to recover control of a vehicle.

Assessment Conditions

Assessment must occur in workplace operational situations in a heavy vehicle typical of that used in industry and on a variety of road conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation, including legislation, regulations, codes of practice, workplace procedures and operation manuals
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- suitable vehicle that meets state/territory requirements.

Links