



Australian Government

Assessment Requirements for TLIC0033 Apply low risk heavy vehicle driving behaviours

Release: 1

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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:

- adapting to differences in heavy vehicles, including their operations, controls and safety devices to maximise safety and efficiency
- 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
- applying attention allocation techniques to maximise hazard awareness and negotiation
- 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 high-speed 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
- applying road rules when driving in a low risk and legal manner
- applying techniques on hazard approach and negotiation including:
 - hazard approach in a low risk manner
 - hazard identification, systems approach
 - hazard negotiation in a low risk manner
- applying thinking frameworks to systemise driving skills on approach to hazards
- applying work health and safety (WHS)/occupational health and safety (OHS) workplace procedures, requirements and practices
- approaching and negotiating low risk high-speed bends with different cambers
- carrying out pre- and post-operational checks and related action on heavy vehicles including checking appropriate signage, lights and equipment for operational effectiveness and for

- conformity to prescribed traffic regulations
- changing gears on any incline and decline, maximizing vehicle control, safety, driveline protection and operational efficiency on rural and urban roads
- complying with relevant legislative, regulatory and workplace procedures when driving a heavy vehicle
- 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
- evaluating risk, consequences and personal responsibility of own driving actions
- following operational instructions
- 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
- internalising techniques to reduce risk to self and others
- making necessary adjustments to suit driving environment
- manoeuvring a heavy vehicle at slow speed
- monitoring and anticipating traffic hazards and taking appropriate and timely action
- monitoring heavy vehicle performance and taking appropriate actions, as required
- 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:
 - high-speed 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
- reading and interpreting relevant instructions, road rules, procedures, jurisdictional requirements, information and signs when driving
- 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:

- additional equipment fitted to heavy vehicles
- application and understanding of advanced observation techniques
- 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
- cognitive factors that may influence performance in heavy vehicle driving
- consequences of heavy vehicle collisions or incidents
- critical factors underpinning high-level heavy vehicle driving technical competence
- dangerous goods systems and dangerous goods regulation requirements
- driving hazards and related low risk driving techniques
- 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
- 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
- heavy vehicle braking systems and techniques for use, such as maxi brakes, trailer brakes and exhaust brake system
- left and right turn requirements on laned and unlaned roads
- load restraint guidelines
- 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
- position on road or lanes requirements for both laned and unlaned roads
- procedures for identifying and responding to hazards
- purpose and benefits of road rules enforcement for low risk heavy vehicle driving
- range of heavy vehicle and trailer designs and capabilities
- relevant laws and penalties for demerit point offences, such as driving while unlicensed, disqualified or under the influence of drugs or alcohol
- relevant road rules and traffic safety legislation including:
 - alcohol and drugs
 - driver licensing
 - rationale for ongoing development of traffic safety regulations to meet changing traffic conditions
 - vehicle registration
- road rules, safety information and directions
- road safety issues including heavy vehicle driver fatigue
- road signs, signals and markings meanings
- roundabouts including straight, left, right and U-turns on laned and unlaned roads
- 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
- 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
- techniques, stability, legality and low risk requirements for diverging and merging
- 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
- vehicle operation and control including:
 - cabin drill
 - in-vehicle technology
 - managing accelerator
 - managing brakes

- managing steering
- start, move off, shut down and secure.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>