



Australian Government

TLIC3037 Apply safe heavy vehicle driving behaviours

Release: 2

TLIC3037 Apply safe heavy vehicle driving behaviours

Modification History

Release 2. This is the second release of this unit of competency in the TLI Transport and Logistics Training Package:

- Minor statement changes in Knowledge Evidence and Assessment Conditions.

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 for higher-order operating of heavy vehicles. This unit applies to heavy vehicle drivers required to apply safe operating driving behaviours.

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

Safe heavy vehicle driving behaviours are applied without supervision.

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

Pre-requisite Unit

Not applicable.

Competency Field

C – Vehicle Operation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Apply relevant legislation applicable to safe operation of a heavy vehicle | 1.1 Current road rules and heavy vehicle national law or applicable state/territory law and regulations are identified, interpreted and applied |
| | 1.2 Road signs, signals and markings are identified and complied with in safe heavy vehicle driving activities |
| | 1.3 Purpose of road rules and traffic safety laws in ensuring safe and efficient regulation of traffic flow is interpreted and applied when driving a heavy vehicle |
| 2 Inspect vehicle and secure load for safe transportation of goods/cargo | 2.1 Visual safety checks of internal and external condition of vehicle/trailer is undertaken in accordance with manufacturer specifications and workplace procedures |
| | 2.2 Internal controls and gauges relating to safe vehicle operation are inspected |
| | 2.3 Pre-operational inspections and checks of vehicle/trailer brake systems, suspension, axles, electrical systems, wheels and tyres, and couplings are undertaken in accordance with national road safety standards, as required |
| | 2.4 Associated equipment is tested to ensure it functions correctly in accordance with manufacturer specifications |
| | 2.5 Distribution of vehicle load is checked to ensure it is even, legal and within safe working capacity and mass management requirements |
| | 2.6 Load is checked to ensure dangerous goods (DG) and hazardous substances are appropriately segregated in accordance with the current Australian Dangerous Goods (ADG) Code, as required |
| | 2.7 Load is secured in accordance with load restraint guidelines and protection equipment for different loads, carrying and storage conditions |
| | 2.8 Load is protected in accordance with legal and workplace safety requirements |
| | 2.9 All required goods documentation is completed in accordance with workplace requirements and the current ADG Code, as required |

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| 3 Apply safe heavy vehicle driving behaviours | 3.1 | Requirements for safe heavy vehicle driving are applied |
| | 3.2 | Importance of attitude in complying with road rules in relation to level of risk faced by a driver is applied when driving a heavy vehicle |
| | 3.3 | Importance of road sharing principles is applied when driving a heavy vehicle, including interacting courteously with other road users, in accordance with road rules to ensure safe and efficient traffic flow |
| | 3.4 | Importance of motivation to drive safely is interpreted and explained |
| | 3.5 | Principles of proactive driving methods that maintain one's driving at a low-level risk are identified and applied |
| | 3.6 | Contributing risk factors to potential crash risks are identified and taken into consideration |
| 4 Apply low-risk heavy vehicle driving strategies | 4.1 | Contributing risk factors to forming opinions and beliefs about low-risk driving are applied |
| | 4.2 | Human factors that can influence low-risk driving behaviour are outlined |
| | 4.3 | Low-risk driving strategies are applied and their rationale explained |
| 5 Explain risk factors that contribute to accidents when driving a heavy vehicle | 5.1 | Contributing risk factors to accidents are recognised |
| | 5.2 | External factors that could lead to accidents are outlined |
| | 5.3 | Internal factors that could lead to accidents are outlined |
| | 5.4 | Consequences of accidents in relation to relevant traffic laws and physical, financial and psychological costs to the individual and society are explained |
| | 5.5 | Functions of vehicle operations and control, and how to recover control of a vehicle are explained |
| 6 Apply heavy vehicle operation and control | 6.1 | Appropriate action is taken to respond to hazardous situations and various road surfaces |

skills

- 6.2** Principles of braking are applied to a high level of technical competence
- 6.3** Principles of steering are applied to a high level of technical competence
- 6.4** Slow speed manoeuvres are carried out to a high level of technical competence
- 6.5** Vehicle is operated and controlled at a high level of technical competence

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.

Unit Mapping Information

This unit replaces but is not equivalent to TLIC3037A Apply safe heavy vehicle driving behaviours.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for TLIC3037 Apply safe heavy vehicle driving behaviours

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Performance Evidence

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

- adapting to differences in heavy vehicles, including their controls and safety devices, and the driving environment
- applying correct selection and application of a braking and gear system
- applying correct steering control techniques in a variety of driving conditions
- applying high-level road craft skills
- applying road rules
- carrying out pre-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
- complying with appropriate legislative, regulatory and procedural requirements while driving a heavy vehicle
- dealing with adverse conditions while driving a heavy vehicle
- evaluating risk and consequences of own driving actions
- following operational instructions
- identifying risk factors that might impact on driving behaviours and implementing appropriate low-risk driving response measures
- identifying, monitoring and anticipating traffic hazards and taking appropriate and timely action
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) requirements and practices when:
 - conducting prestart-up checks
 - identifying hazards
 - loading/unloading and manual handling
 - minimising, controlling or eliminating hazards
 - observing and interpreting driver behaviour that may put people at risk

- interacting with other road users courteously in accordance with road rules to ensure safe and efficient traffic flow
- maintaining situational awareness
- making necessary adjustments to suit driving environment
- managing in-cab distractions and adequate field of view
- managing speed and space while driving a heavy vehicle
- 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 action, as required
- monitoring traffic and road conditions and reacting appropriately
- negotiating complex traffic and road conditions and making appropriate decisions
- reading and interpreting relevant instructions, road rules, procedures, jurisdictional requirements, information and signs
- selecting and using vehicle controls and safety devices to enable safe heavy vehicle driving.

Knowledge Evidence

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

- additional equipment fitted to heavy vehicles
- cognitive factors that may influence performance in heavy vehicle driving
- consequences of heavy vehicle accidents
- critical factors underpinning high-level heavy vehicle driving technical competence
- driving hazards and related low-risk driving techniques
- factors contributing to accidents including:
 - age, experience, drugs, alcohol, medication, road conditions, fatigue and time of day
 - driver values, emotions, limitations and personal needs
 - emotional factors, driver's own behaviours and driver's operation at high levels of risk
 - speed, space, vision, road conditions, vehicle condition and environmental conditions
- heavy vehicle braking systems and techniques for use, such as maxi brakes, trailer brakes and exhaust brake system
- load restraint guidelines
- low-risk driving behaviours including:
 - creating and maintaining crash avoidance space
 - protecting crash avoidance space
 - obeying road rules, safety information and directions
- maintaining appropriate physical and mental health and wellbeing
- observation and scanning techniques
- procedures for identifying and responding to hazards
- purpose and benefits of road rules enforcement for safe heavy vehicle driving
- range of heavy vehicle and or trailer designs and capabilities (in accordance with manufacturer specifications)

- rationale for ongoing development of traffic regulations to meet changing traffic conditions
- 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
 - vehicle registration
 - vehicle standards
 - fatigue management
 - mass, dimensions and loading management
 - speed compliance
- road safety issues including heavy vehicle driver fatigue
- road signs, signals and markings
- steering operation and control
- 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
- use of pre-drive documentation requirements
- vehicle operation and control including:
 - cabin drill
 - start, move off, shut down and secure
 - managing accelerator
 - managing brakes
 - managing steering.

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 workplace procedures, regulations, Australian Road

Rules, codes of practice and operation manuals

- relevant materials, tools and equipment currently used in industry
- suitable heavy vehicle that meets state/territory requirements.

Links

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