



Australian Government

Assessment Requirements for TLIC0029 Operate a battery electric heavy vehicle

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 of the requirements of the elements and performance criteria on at least one occasion and include:

- applying precautions and required actions to minimise, control or eliminate identified hazards
- carrying out electric vehicle and battery pre-operational checks in accordance with workplace procedures and original equipment manufacturer instructions
- checking warning systems for operational effectiveness
- completing relevant documentation
- connecting and disconnecting electric heavy vehicle to and from charging device
- demonstrating low risk driving behaviours
- explaining difference between types of electric heavy vehicle warnings and faults
- monitoring and anticipating traffic hazards and taking appropriate actions
- monitoring performance of battery electric heavy vehicle and its equipment, and taking appropriate actions, as required
- operating, checking and adapting to differences in electrical equipment in accordance with workplace procedures
- reading and interpreting relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions promptly in accordance with regulatory and workplace procedures requirements
- using regenerative braking system to ensure maximum range and capability.

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:

- battery electric heavy vehicle components and vehicle terminology including controls, instruments and indicators, and their use
- causes and effects of fatigue on drivers including fatigue management strategies and on-road techniques
- differences between types of warnings and types of faults
- drive system management and safe driving strategies
- driving hazards and related defensive driving techniques

- efficient electric heavy vehicle driving techniques
- electric heavy vehicle handling procedures
- emergency management plan
- factors that may cause traffic delays and diversions, and related actions that can be taken
- heavy vehicle capacity and mass management requirements
- pre-operational checks to be carried out on electric heavy vehicle and related actions
- principles of electric heavy vehicle braking systems operation
- state/territory road and traffic authority road rules, regulations, permits and licence requirements
- torque characterises including the impact that it can have on smooth vehicle operation
- using regenerative braking system to ensure maximum range and capability
- work health and safety (WHS)/occupational health and safety (OHS) and environmental procedures and regulations including procedures to be followed in case of an emergency, abnormal event or limp mode
- workplace electric heavy vehicle driving and operational instructions.

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 where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace 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.

Electric heavy vehicle simulator is not suitable for final practical assessment of this unit.

Resources for assessment must include access to:

- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment, personal protective equipment (PPE) and appropriate electric heavy vehicle currently used in industry.

Links

Companion Volume Implementation Guides are found in VETNet -

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