



Australian Government

Assessment Requirements for POLINV017

Analyse crashes involving heavy vehicles

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the POL Police 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:

- accessing and utilising electronically recorded data for heavy vehicle crash analysis
- analysing a heavy vehicle and its mechanical systems
- analysing a heavy vehicle including measurements and features
- analysing heavy vehicle crash dynamics
- analysing heavy vehicle work management information to assess contributing factors to crash
- analysing operational features of a heavy vehicle
- applying human evidence to a heavy vehicle crash investigation
- applying specialist physics and mathematics calculations and principles to heavy vehicle crashes
- calculating heavy vehicle mass distribution and vehicle dimensions
- calculating speed and dynamics of a heavy vehicle
- determining causal factors of a heavy vehicle crash
- examining if human or environmental factors contributed to a heavy vehicle crash incident
- interpreting interviews and statements to corroborate crash analysis
- reviewing medical information of persons in crash incident to corroborate analysis
- sourcing and interpreting evidence specific to heavy vehicles, including event data recorder.

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:

- driver evidence specific to heavy vehicles including:
 - fatigue management
 - licencing and training documentation
- environmental factors that may contribute to a heavy vehicle crash incident including:
 - geographic location
 - hazards and obstructions
 - lighting

- road design and maintenance
- roadside furniture
- weather conditions
- event data recording devices
- factors impacting human ability to operate a heavy vehicle including:
 - impairment
 - medical conditions
- faults and defects impacting vehicle operations
- heavy vehicle mass distribution including:
 - load location
 - load movement
 - restraint systems
- interview evaluation techniques
- mechanical features of a heavy vehicle
- medical information and records
- methodologies for heavy vehicle crash analysis
- operational features of heavy vehicles including:
 - balance
 - braking systems and efficiency
 - control
 - motion
 - roll thresholds
 - suspension
 - tyres
- organisational policies and procedures related to work health and safety (WHS)
- physics and mathematical formulas for heavy vehicle crash analysis
- regulations for road use specific to heavy vehicles
- road evidence
- road laws
- standard operations and maintenance of mechanical parts and systems
- vehicle maintenance record keeping systems
- vehicle standards, legal vehicle configurations and modifications.

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 processes and techniques must be appropriate to the language, literacy and numeracy

requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, such as in situations that can affect safety or occur only rarely, assessment can occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

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

Links

Companion Volume Implementation Guides can be found on VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=98c3984e-2cf1-48a8-8ed1-85e4b92e7351>