



Australian Government

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.

Application

This unit describes the skills and knowledge required to apply crash analysis methodologies specific to heavy vehicles crash incidents. It includes analysing evidence already collected by police crash investigators as part of the crash investigation.

This unit applies to those working as police officers involved in vehicle crash analysis.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are undertaken. Organisational policies and procedures must be consulted and adhered to, particularly those related to work health and safety (WHS).

Those undertaking this unit would work autonomously while remaining responsible for reporting to senior staff. They would demonstrate the ability to perform highly complex analysis in changing and often unfamiliar contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

Investigation.

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 Analyse crash incident heavy vehicle's features and operations | 1.1 Identify class, type and configuration of heavy vehicle for crash analysis |
| | 1.2 Classify operating features of heavy vehicle for crash analysis |
| | 1.3 Assess heavy vehicle loading and dimensions to establish mass distribution, rollover threshold and vehicle operation |
| | 1.4 Analyse vehicle operational features and mechanical systems to verify functionality and condition |
| 2 Examine electronic evidence from heavy vehicle | 2.1 Inspect heavy vehicle electronic data recorder systems to assess evidentiary value |
| | 2.2 Review electronic data to facilitate analysis |
| | 2.3 Validate electronic data to assess viability for analysis |
| | 2.4 Analyse electronic evidence to calculate heavy vehicle dynamics and speed |
| 3 Assess human and environmental factors in a heavy vehicle crash | 3.1 Examine driver work management information to assess contributing factors to crash |
| | 3.2 Assess medical and injury records to corroborate crash analysis |
| | 3.3 Review interviews and statements to corroborate evidentiary analysis and inform causal factors |
| | 3.4 Assess human actions factors to determine effect on crash |
| | 3.5 Assess environmental factors to determine effect on crash |
| 4 Apply specialist physics and mathematics to a heavy vehicle crash | 4.1 Identify and apply specialist analysis methodologies to determine causal factors in heavy vehicle crash |
| | 4.2 Analyse heavy vehicle damage to correlate interaction of objects and vehicle |
| | 4.3 Analyse mass distribution, operational features and road |

evidence to establish braking efficiency

- 4.4 Analyse heavy vehicle rollover thresholds and loads to determine impacting forces during crash
- 4.5 Examine road evidence to determine crash dynamics and speed

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 may be found in the POL Police Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides can be found on VETNet - -

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