Australian Government

AURVNA107 Apply automotive mechanical and electrical knowledge to vehicle loss assessments

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to identify mechanical and electrical damage resulting from a vehicle accident.

The unit applies to those applying specialist automotive knowledge to a vehicle loss assessment in the loss assessment environment. Loss assessment may relate to light vehicles, commercial vehicles, heavy vehicles, agricultural and plant equipment, recreational vehicles and motorcycles.

Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Unit Sector

Vehicle Body Loss Assessment and Repair Quoting

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Develop and apply an understanding of automotive mechanical knowledge	1.1 Employ research techniques, including discussions with customers and supervisors, and advanced specialist knowledge to identify vehicle mechanical damage 1.2 Develop knowledge of the operating principles of suspension and steering systems, brake systems, transmission and driveline assembly, and engine and fuel systems 1.3 Apply knowledge of suspension and steering systems, brake systems, transmission and driveline assembly, and engine and fuel systems to loss assessment processes, procedures and policies

ELEMENTS	PERFORMANCE CRITERIA
2. Develop and apply an understanding of automotive electrical knowledge	2.1 Develop knowledge of the operating principles of electrical and electronic systems 2.2 Apply knowledge of electrical and electronic systems to loss assessment processes, procedures and policies 2.3 Identify electrical damage
3. Develop and apply an understanding of advanced specialist vehicle knowledge	3.1 Develop knowledge of specific vehicle types, clarify where required, and apply to loss assessment processes, procedures and policies 3.2 Develop knowledge of latest technology relating to automotive mechanical and electrical systems, clarify where required, and apply to loss assessment processes, procedures and policies

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	• Locates required sources of information efficiently.
Numeracy	• Interprets technical measurements.
Oral communication	• Engages with repairers and specialist providers.
Reading	• Applies loss assessment processes, procedures and policies • Identifies, interprets and applies automotive mechanical, electrical and advanced specialist vehicle knowledge.

Problem solving	• Clarifies problems relating to:
	  • brake systems
	  • engine and fuel systems
	  • electrical and electronic systems
	  • latest automotive technology
	  • specific vehicle types
	  • suspension and steering systems
	  • transmission and driveline assembly
	• Clarifies knowledge of specific vehicle types and latest technology relating to automotive mechanical and electrical problems.

Unit Mapping Information

Supersedes and is equivalent to AURVNA007 Apply automotive mechanical and electrical knowledge to vehicle loss assessments.

Links

Companion Volume Implementation Guide is found on VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1