



Australian Government

AURVTS103 Fabricate vehicle composite material components

Release: 1

AURVTS103 Fabricate vehicle composite material components

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 fabricate components for automotive application, using composite materials such as fibreglass and carbon fibre. It involves preparing for the task, selecting and using specialist tools and equipment, identifying composite materials, calculating material quantities, mixing and applying recommended composite materials, finishing components to workplace and customer specifications, and completing workplace processes and documentation.

The unit applies to those working in the automotive body repair industry.

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

Unit Sector

Vehicle Body Technical - Fabrication

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to fabricate vehicle composite material component	1.1 Determine job requirements from workplace instructions 1.2 Access and interpret composite information 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check composite materials and equipment and personal protective equipment (PPE) for serviceability 1.5 Measure and calculate component surface area to determine required quantities of gel coat, resins, catalyst and matting 1.6 Check work area with approved ventilation for required operation and report faults to authorised personnel 1.7 Plan work to identify methods to fabricate component,

ELEMENTS	PERFORMANCE CRITERIA
	minimise waste, and use time efficiently
2. Fabricate component	2.1 Set up and prepare equipment and materials for use 2.2 Mix and apply composite materials according to manufacturer and equipment specifications to fabricate component 2.3 Fabricate component using composite materials according to workplace procedures and safety and environmental requirements, and without causing damage to vehicle and equipment 2.4 Check fabricated component against job specifications and workplace quality requirements
3. Complete work processes	3.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 3.2 Clear work area and dispose of or recycle materials according to workplace procedures 3.3 Complete documentation according to workplace procedures

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	- Uses basic mathematical operations, including addition, subtraction, multiplication and division to: - calculate component surface area - calculate quantities of composite materials - Determines ratios and mixing percentages.
Oral communication	- Clarifies instructions and procedures - Reports quality issues and job outcomes clearly.
Technology	Uses specialist tools and equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTS003 Fabricate vehicle composite material components.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>