



Australian Government

AURVTN128 Identify and repair high strength steel vehicle components

Release: 1

AURVTN128 Identify and repair high strength steel vehicle 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 knowledge and skills required to locate, identify and repair high strength steel (HSS) vehicle components, including advanced and ultra-high strength steel. This unit involves preparing for the task, selecting and using specialist tools and equipment, confirming recommended repair procedure from original equipment manufacturer (OEM) or authorised agency. It also includes selecting repair procedures and recommended welding method, removing and replacing HSS components, finishing HSS repairs to pre-paint condition, 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 - Body

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. Locate OEM or authorised agency repair procedures	1.1 Determine job requirements from workplace instructions 1.2 Source, interpret and incorporate OEM or authorised agency repair procedures into planning process 1.3 Identify hazards associated with the work and manage risks 1.4 Select and check required repair tools and equipment and personal protective equipment (PPE) for serviceability 1.5 Plan work to identify required HSS repair methods, minimise waste, and use time efficiently

ELEMENTS	PERFORMANCE CRITERIA
2. Repair or replace HSS components	2.1 Protect sections not subject to repair, using approved methods and equipment 2.2 Identify and remove HSS sections to be replaced using OEM or authorised agency required removal methods and equipment, workplace procedures, and safety and environmental requirements 2.3 Restore damaged surfaces to a condition suitable for fitting replacement HSS components 2.4 Use vehicle measuring or jiggling equipment to position replacement HSS component according to OEM or authorised agency specifications 2.5 Protect or reapply OEM or authorised agency's surface coatings 2.6 Align and secure replacement HSS components within OEM or authorised agency's tolerances
3. Weld HSS components	3.1 Locate and check recommended welding equipment for HSS for operation 3.2 Conduct sample welds using recommended repair methods, and inspect and destruction test for defects according to workplace instruction 3.3 Refit HSS components using recommended repair methods, materials and equipment, and without causing damage to other systems or components 3.4 Follow grinding procedures according to OEM or authorised agency and weld material specifications
4. Complete work processes	4.1 Finish repairs to HSS components to pre-paint condition according to workplace and OEM or authorised agency repair procedures 4.2 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use 4.3 Clear work area and dispose of or recycle materials according to workplace procedures 4.4 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
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SKILL	DESCRIPTION
Learning	• Locates required sources of information efficiently.
Numeracy	• Sets approved measuring equipment and measures • Uses basic mathematical operations, including addition and subtraction, to calculate measurements and tolerances.
Oral communication	• Clarifies instructions and procedures • Reports quality issues and job outcomes clearly.
Problem solving	• Identifies defects, quality issues and potential problems associated with repairs to HSS components.
Technology	• Uses specialist equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTN028 Identify and repair high strength steel vehicle components.

Links

Companion Volume Implementation Guide is found on VETNet -

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