



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 jigging 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>

Assessment Requirements for AURVTN128 Identify and repair high strength steel vehicle components

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- identify and repair high strength steel (HSS) components to pre-paint condition on at least three different damaged vehicles.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to identify and repair high strength steel vehicle components, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to identify and repair high strength steel vehicle components, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) requirements relating to identifying and repairing HSS vehicle components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - manually handling vehicle components
 - using tools and equipment

- environmental requirements, including procedures for trapping, storing and disposing of waste materials
- original equipment manufacturer (OEM) or authorised agency's:
 - vehicle specifications and measurements
 - approved repair procedures and quality processes, including:
 - identifying HSS type and location
 - visual and physical testing procedures
 - repair and welding specifications
- HSS repair, replacement and welding methods and procedures, including:
 - HSS recommended tools and equipment, including welding equipment
 - types and location of HSS components
 - pre-repair destruction testing of welds on similar material
 - body and panel alignment
 - bonding, riveting and welding
- procedures for protecting vehicle and components during repair work
- procedures for final inspection of HSS repair.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the damaged HSS vehicle components that they have repaired, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions
- OEM or authorised agency's approved specifications and recommended repair procedures
- OEM or authorised agency's approved welding equipment
- PPE required to repair HSS components
- three different damaged vehicles requiring HSS component repairs
- tools, equipment and materials appropriate for identifying and repairing HSS vehicle components.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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