



**Australian Government**

# **AURVTW105 Carry out spot welding**

**Release: 1**

## AURVTW105 Carry out spot welding

### 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 carry out spot welding to replace structural and non-structural vehicle body sections according to original equipment manufacturer (OEM) or authorised agency procedures. It involves preparing for the task, selecting and using spot welding equipment, adjusting spot welder, operating spot welder, selecting and using suitable personal protective equipment (PPE), inspecting and testing weld quality, and completing workplace processes and documentation.

This unit applies to those working in the automotive service and repair industry.

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

### Unit Sector

Vehicle Body Technical - Welding, Grinding, Machining and Soldering

### 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 for spot welding                      | 1.1 Determine job requirements from workplace instructions<br>1.2 Access and interpret welding information<br>1.3 Select and inspect materials for repairs and replacements for quality<br>1.4 Identify hazards associated with the work and manage risks<br>1.5 Select and check tools and equipment for serviceability<br>1.6 Prepare work area and plan work to conduct and test spot welds, minimise waste, and use time efficiently |
| 2. Carry out spot welding activities             | 2.1 Prepare surfaces for spot welding and apply anti-corrosion coatings prior to spot welding                                                                                                                                                                                                                                                                                                                                            |

| ELEMENTS                   | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 2.2 Set up and adjust welding equipment for specific welding job requirement following OEM or authorised agency repair guidelines<br>2.3 Perform and destructive test sample spot welds<br>2.4 Carry out welding using welding equipment according to workplace procedures and safety and environmental requirements<br>2.5 Complete spot welding without causing damage to components or systems<br>2.6 Inspect completed spot welds for quality, and rectify identified faults as required according to workplace procedures |
| 3. Complete work processes | 3.1 Conduct final inspection according to workplace procedures and confirm vehicle is ready for use<br>3.2 Clear work area and dispose of or recycle materials according to workplace procedures<br>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                | <ul style="list-style-type: none"> <li>Locates required sources of information efficiently.</li> </ul>                                                                                                    |
| Numeracy                | <ul style="list-style-type: none"> <li>Identifies and sets welder settings.</li> </ul>                                                                                                                    |
| Oral communication      | <ul style="list-style-type: none"> <li>Clarifies instructions and procedures</li> <li>Reports quality issues and job outcomes clearly.</li> </ul>                                                         |
| Planning and organising | <ul style="list-style-type: none"> <li>Plans own work requirements</li> <li>Prioritises actions to achieve required outcomes</li> <li>Ensures tasks are completed within workplace timeframes.</li> </ul> |
| Technology              | <ul style="list-style-type: none"> <li>Uses welding equipment.</li> </ul>                                                                                                                                 |

## Unit Mapping Information

Supersedes and is equivalent to AURVTW005 Carry out spot welding.

## Links

Companion Volume Implementation Guide is found on VETNet -

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