



Australian Government

AURVTW103 Carry out advanced gas metal arc welding on vehicle body sections

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 carry out advanced gas metal arc welding (GMAW) to replace structural and non-structural vehicle body sections during vehicle body repair work. It involves preparing for the task, selecting and using GMAW equipment, operating gas metal arc welder, selecting and using suitable personal protective equipment (PPE), and completing workplace processes and documentation.

The 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. Plan and prepare to carry out advanced GMAW	1.1 Identify job requirements from workplace instructions 1.2 Obtain and interpret welding information 1.3 Identify hazards associated with the work, assess potential risks and implement control measures in line with workplace policies and procedures 1.4 Identify tools and equipment required for welding and establish serviceability according to workplace procedures
2. Weld using GMAW welder	2.1 Set up and make adjustments to welding equipment according to manufacturer specifications, workplace procedures, workplace health and safety and environmental

ELEMENTS	PERFORMANCE CRITERIA
	requirements 2.2 Carry out welding test runs according to workplace procedures 2.3 Weld materials using GMAW process according to workplace procedures and required specifications
3. Check welds	3.1 Clean welds are according to workplace procedures 3.2 Carry out visual inspection and destructive testing and confirm weld quality and specifications 3.3 Identify weld defects and prepare for re-welding as required, notifying appropriate personnel
4. Complete work processes	4.1 Conduct final inspection according to workplace procedures and confirm component is ready for use 4.2 Clear work area and dispose of or recycle materials according to workplace procedures 4.3 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"> Locates required sources of information efficiently.
Oral communication	<ul style="list-style-type: none"> Clarifies instructions and procedures Reports quality issues and job outcomes clearly.
Numeracy	<ul style="list-style-type: none"> Identifies and sets gas metal arc welder settings Identifies weld measurements from job requirements.
Planning and organising	<ul style="list-style-type: none"> Plans own work requirements Prioritises actions to achieve required outcomes Ensures tasks are completed within workplace timeframes.
Problem solving	<ul style="list-style-type: none"> Identifies defects, quality issues and potential problems associated with GMAW processes and refers problems to appropriate person.
Technology	<ul style="list-style-type: none"> Uses specialist GMAW equipment.

Unit Mapping Information

Supersedes and is equivalent to AURVTW003 Carry out advanced gas metal arc welding on vehicle body sections.

Links

Companion Volume Implementation Guide is found on VETNet -

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