

PERFORM VEHICLE BODY WORKS

UNIT CODE: ENG/OS/AUT/CR/9/5/A

Unit description:

This unit specifies the competencies required to perform vehicle body works. It involves use body work tools and equipment, perform vehicle body jacking, perform vehicle body pulling ,perform vehicle body dent checking, beating and gas welding ,perform vehicle body filing and sanding ,apply spot putty ,perform vehicle body cleaning/degreasing ,spray and valet vehicle body,perform vehicle body fitting and perform vehicle body buffing ispose vehicle body scrap/dead stock

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
1. Use body work tools and equipment	1.1 Identify and use PPE as per workshop regulations 1.2 Identify and set out vehicle body works tools and equipment as per workshop procedures 1.3 Use vehicle body work tools and equipment to perform vehicle body works as per work shop procedures
2. Perform vehicle body jacking	2.1 Body panel section requiring body jacking is identified according to workshop procedures. 2.2 Position body jack on the vehicle panel section according to workshop procedures. 2.3 Body jack is operated according to manufacturer’s specification.
3. Perform vehicle body pulling	3.1 Body panel section requiring body pulling is identified according to workshop procedures. 3.2 Position body hook puller on the vehicle panel section according to workshop procedures. 3.3 Body hook puller is operated according to manufacturer’s specification
4. Perform vehicle body dent checking, beating and gas welding	4.1 Vehicle body dent section is identified according to workshop procedures. 4.2 Dent removal tool is operated according to workshop procedures. 4.3 Body panel section requiring body beating is identified according to workshop procedures. 4.4 Operate panel beating tools on the vehicle panel section according to workshop procedures.

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
	4.5 Gas welding equipment is operated to heat panel section according to workshop procedures.
5. Perform vehicle body filing and sanding	5.1 Body filler material is applied on the panel section as per workshop procedures. 5.2 Tools and equipment are identified according to workshop procedures. 5.3 Body sanding is performed on the panel section as per workshop procedures.
6. Apply spot putty	6.1 Panel section to apply spot putty is identified according to workshop procedures. 6.2 Spot putty is applied according to workshop procedures. 6.3 Dry sanding is performed according to workshop procedures
7. Perform vehicle body cleaning/degreasing	7.1 Necessary cleaning materials are identified according to cleaning procedures. 7.2 Wet sanding procedure is performed according to workshop process. 7.3 Drying process is performed according to workshop procedures.
8. Spray and valet vehicle body.	8.1 Vehicle parts not requiring painting are masked according to workshop procedures. 8.2 Automotive paints are identified according to manufacturer's specification. 8.3 Primer is sprayed according to workshop procedures. 8.4 Appropriate colour matching and mixing (manual/computer aided) is performed according to manufacturer's specification. 8.5 Spraying equipment is selected according to manufacturer's specifications. 8.6 First coat paint is sprayed according to workshop procedures. 8.7 Second coat paint is sprayed according to workshop procedures. 8.8 Body valeting is performed according to workshop procedures. 8.9 Final coat paint is sprayed according to workshop procedures. 8.10 Vehicle paint is cured/ baked according to manufacturer's specifications.

ELEMENT	PERFORMANCE CRITERIA <i>(Bold and italicized terms are elaborated in the Range)</i>
9. Perform vehicle body fitting	9.1 Upholstery items are identified according to workshop procedures. 9.2 Tools and equipment are identified according to workshop procedures. 9.3 Upholstery items are checked/ serviced according to workshop procedures. 9.4 Upholstery items are fitted according to manufacturer's specifications.
10. Perform vehicle body buffing	10.1 Buffing tools and materials are selected according to manufacturer's specifications. 10.2 Vehicle body is prepared for buffing according to workshop procedures. 10.3 Body buffing is performed according to manufacturer's specifications 10.4 Body vehicle cleaning is performed.
11. Dispose vehicle body scrap/dead stock	11.1 Dispose scrap/dead stock as per the workshop regulations 11.2 Vehicle body scrap/dead stock records are updated as per the workshop requirements

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

Variable	Range :
1. Dent removal tool may include but is not limited to	<ul style="list-style-type: none"> • Dollies • Spoons
2. Panel beating tools may include but is not limited to	<ul style="list-style-type: none"> • 2.1 Ve Dinging hammer • Chipping hammer • soft hammer • Lever
3. Body filler material may include but is not limited to	<ul style="list-style-type: none"> • Compound filler • Hardener • Chemical paste

Variable	Range :
4. Cleaning materials may include but is not limited to	<ul style="list-style-type: none"> • Chemical compounds • Rubbing compounds • Solvents
5. . spraying equipmen may include but is not limited to t	<ul style="list-style-type: none"> • Compressor • Spraying gun • Compressor hose

REQUIRED KNOWLEDGE AND SKILLS

Required knowledge

The individual needs to demonstrate knowledge of:

- Legislative and organizational requirements and procedures
- Workplace procedures for:
- Use of technical information
- Vehicle body works principles
- Design and construction of vehicle body.
- The functions of vehicle body components
- How to service vehicle body
- How to use vehicle body workshop tools
- How to` mix and match automotive color paints
- legal requirements concerned with the disposal of body shop wastes

FOUNDATION SKILLS

The individual needs to demonstrate the following foundation skills:

- Communications (verbal and written);
- Proficient in ICT;
- Decision making;
- Multitasking;
- Time management;
- Problem solving;
- Planning;
- First aid;
- Report writing;
- Driving.

EVIDENCE GUIDE

1. Critical Aspects of Competency.	Assessment requires evidence that the candidate: 1.1 Worked in a safe and clean environment using appropriate PPEs 1.2 Identified and used vehicle body works tools and equipment 1.3 Performed vehicle body jacking 1.4 Pulled vehicle body 1.5 Checked and identified vehicle body dents 1.6 Performed vehicle body beating and gas welding 1.7 Applied spot putty 1.8 Performed vehicle body spraying 1.9 Performed vehicle body valeting and buffing
2. Resource Implications	The following resources should be provided: 2.1 Workplace: Real or simulated work area 2.2 Appropriate Tools & equipment 2.3 Materials relevant to the activity
3. Methods of Assessment.	Competency may be assessed through: 3.1 Practical Test 3.2 Oral questioning 3.3 Written Test
4. Context of Assessment.	Competency may be assessed individually in an actual workplace or in work-simulated conditions within accredited institutions or during industrial attachment.
5. Guidance information for assessment.	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.