

Domain	VEHICLE COLLISION REPAIR	Unit ID: 1990
Title:	Use and maintain electrical and mechanical tools for Vehicle collision repair	
Level: 3		Credits: 4

Purpose

This unit standard specifies the competencies required to use and maintain electrical and mechanical tools for vehicle collision repair. People credited with this unit standard are able to plan and prepare for work, obtain basic measurements, demonstrate use of electrical and mechanical tools, maintain electrical and mechanical tools.

This unit standard is intended for those who work as vehicle collision repairers.

Special Notes

1. Entry information:

Prerequisite:

- *None*

2. To demonstrate competence, at a minimum, evidence is required of the tasks in safe use and maintenance of electrical and mechanical tools. These tasks should be performed ensuring correct identification of requirements of the task, correct selection and use of appropriate processes, tools and equipment and completing all work to specification.

3. Assessment evidence may be collected from a real workplace or a simulated workplace environment in which vehicle collision repair operations are carried out.

4. Performance of all elements in this unit standard must comply with workplace requirements or manufacturers' specifications.

5. Regulations and legislation relevant to this unit standard include the following:

- Labour Act 2007(Act no 11, 2007)
- Regulations relating to the health & Safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007 and all subsequent amendments

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions, which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1: Plan and prepare for work

Range:

Planning and preparation may include but is not limited to workplace inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

Performance Criteria

- 1.1 An understanding of work instructions, including plans, specifications, quality requirements and operational processes is demonstrated.
- 1.2 Details are estimated, measured, confirmed and applied.
- 1.3 Safety requirements are followed in line with workplace safety plans and policies.
- 1.4 Measuring and calculating equipment selected to carry out tasks are consistent with industry standards.
- 1.5 Requirements of the job are checked for serviceability and any faults are rectified or reported.

Element 2: Obtain basic measurements

Performance Criteria

- 2.1 Method of obtaining the measurement is selected and applied.
- 2.2 Measurements are obtained, accurate to 1 mm, using a ruler or tape.
- 2.3 Measurements are confirmed and recorded.

Element 3: Demonstrate use of electrical and mechanical tools

Range

Electrical and mechanical tools may include but are not limited to portable drilling machine, angle grinders, open ended spanners, ring spanners, combination spanners, socket spanners including attachments, driving handles, extensions and adaptors, special spanners such as crow's foot and c-shaped, adjustable spanners, torque wrenches, allen wrenches (allen keys), wheel braces, screw drivers, torx bit, tools for gripping and holding such as combination pliers, long-nose pliers, side-cutting pliers, circlip pliers, multi-grip pliers, vice grip pliers, bench vices, tools for hammering and driving such as ball-point hammer, cross-pein hammer, panel hammer, rubber hammer, punches, tools for cutting and forming such as hacksaws, cold chisels, wad punches, files, tools for pulling and pushing such as pullers and presses.

Performance Criteria

- 3.1 Electrical tools are identified and their use explained.
- 3.2 Mechanical tools are identified and their use explained.

- 3.3 Correct use of electrical tools is demonstrated according to workplace procedures.
- 3.4 Correct use of mechanical tools is demonstrated according to workplace procedures.

Element 4: Maintain electrical and mechanical tools

Performance Criteria

- 4.1 Electrical tools are cleaned and stored in designated storage places.
- 4.2 Mechanical tools are lubricated with manufacturer’s recommended lubricants.
- 4.3 Cutting tools are sharpened according to workplace procedures.
- 4.4 Mechanical tools are cleaned and stored in designated storage places.

Registration Data

Subfield:	Automotive Engineering
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