

Domain	AUTOMOTIVE MECHANICS	Unit ID: 81
Title:	Service a motor vehicle exhaust system	
Level: 2		Credits: 3

Purpose

This unit standard specifies the competencies required to service a motor vehicle exhaust system. It includes the removal, replacement and repair of system components. This unit standard is intended for those who work as automotive mechanics.

Special Notes

1. Entry information:
 - Prerequisite
 - Unit 65 - *Apply safety rules and regulations in an automotive mechanics workshop* or demonstrated equivalent knowledge and skills.
2. To demonstrate competence, at a minimum, evidence is required of removing, replacing and repairing the exhaust system of a motor vehicle. Perform these tasks ensuring correct identification of requirements, 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 real workplace or an appropriate realistic simulated environment in which automotive mechanic operations are carried out.
4. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' and company guidelines, instructions and reasonable flat rate time.
5. '*Specifications*' refers to any, or all of the following: manufacturer's specifications and recommendations, workplace specific requirements.
6. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 6, 1992
 - Occupational Health and Safety Regulations No. 18, 1997
 - Road Traffic and Transport Regulations No. 266, 2000
 and all subsequent amendments.
7. This unit standard applies to passenger and light commercial vehicles with a Gross Vehicle Mass $\leq 5\,500$ kg (Petrol & Diesel).
8. This unit standard refers to catalytic converter and non-catalytic converter systems.

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 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 are not limited to workplace inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

Tools and equipment may include but are not limited to tool set, lift (hoist), oxy-acetylene welding equipment.

Materials are to include but are not limited to spare parts, welding consumables and cleaning materials.

Performance Criteria

- 1.1 Work instructions, including repair order forms, specifications and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults rectified or reported prior to commencement.
- 1.4 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located, ready for use.
- 1.5 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Remove, repair and replace faulty exhaust components

Range

Repair methods and sequence are to include isolation of fault(s), dismantling, inspection and evaluation, replacement of components, reassembly and completion of operational tests and documents.

Performance Criteria

- 2.1 Correct information is accessed and interpreted from manufacturers' specifications.
- 2.2 Repairs and/or replacements to faulty exhaust system components are carried out in accordance with manufacturers' specifications.
- 2.3 Faulty exhaust component repair is completed without causing damage to other components or systems.
- 2.4 Removal and replacement operations are completed in line with workplace and legislative requirements.

Element 3: Complete work and clean up

Range

Work completion details may include but are not limited to work schedule or appointment sheet, vehicle drop-off form, repair order form, service record book, service plan form and sign-out form for equipment.

Performance Criteria

- 3.1 Work is completed and appropriate personnel notified in accordance with workplace procedures.
- 3.2 Work area is cleared of waste, cleaned, restored and secured in accordance with workplace procedures.
- 3.3 Reusable material is collected and stored in accordance with workplace procedures.
- 3.4 Tools and equipment are cleaned, checked and maintained in accordance with workplace procedures.
- 3.5 Work completion details are finalised in accordance with workplace procedures.

Registration Data

Subfield:	Automotive Engineering
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