

<b>Domain</b>	<b>AUTOMOTIVE MECHANICS</b>	<b>Unit ID: 84</b>
<b>Title:</b>	<b>Perform lubrication service on a vehicle</b>	
<b>Level: 2</b>		<b>Credits: 3</b>

### Purpose

This unit standard specifies the competencies required to perform lubrication service on a vehicle. It includes maintaining fluid levels and lubrication of vehicle components. This unit standard is intended for those who work as automotive mechanic.

### Special Notes

1. Entry information:
  - Prerequisite
    - Unit 65 - *Apply safety rules and regulations in an automotive mechanics workshop or demonstrated equivalent skills and knowledge.*
2. To demonstrate competence, at a minimum, evidence is required of maintaining fluid levels in an engine lubrication system, cooling system, drive train system, battery, wiper washer system and hydraulic power steering system; lubricating door hinges, shafts joints, handbrake linkages, bonnet catch and striker plate, battery poles and terminals. In performing these tasks ensure correct identification of requirements and finishing of the tasks, 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 simulated real workplace or an appropriate simulated realistic 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' guidelines and instructions.
5. '*Specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, and 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. Work involved includes routine and scheduled lubrication servicing as defined by the manufacturer.

### 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](http://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.

Tools and equipment may include but are not limited to tool set, lift (hoist) or inspection pit, grease gun, filter wrench, service boy (drain container) and special tools as required by the manufacturer.

Materials are to include but are not limited to cleaning material, oils, lubricants and spare parts.

#### **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 that are consistent with the requirements of the job, are 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: Check and maintain fluid levels**

#### **Range**

Fluid levels are to include engine lubrication system, cooling system, drive train system, battery, wiper washer system and hydraulic power steering system.

#### **Performance Criteria**

- 2.1 Correct information is accessed and interpreted from manufacturers' specifications.
- 2.2 Fluid levels are checked, fluids drained and refilled in accordance with manufacturers' specifications.
- 2.3 Fluid leaks are inspected in accordance with manufacturers' procedures and reported to supervisor for action in line with workplace procedures.
- 2.4 Spillage of fluids is avoided and fluids are disposed of in accordance with environmental and manufacturers' requirements and workplace procedures.

### **Element 3: Lubricate vehicle components**

#### **Range**

Lubrication operations are to include door hinges, shafts joints, handbrake linkages, bonnet catches and striker plate, battery poles and terminals.

#### **Performance Criteria**

- 3.1 Correct lubricants and fluids are identified for components in line with manufacturers' specifications.
- 3.2 Methods for lubrication operations are implemented in line with workplace procedures and manufacturers' specifications.
- 3.3 Minor adjustments made during lubrication operations are in line with manufacturers' specifications.
- 3.4 Used lubricants and fluids are disposed of in line with environmental and manufacturers' requirements and workplace procedures.
- 3.5 Handling of lubricants and fluids is carried out according to workplace procedures and health and safety requirements.

### **Element 4: Complete work and clean up**

#### **Range**

Work completion details may include but are not be 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**

- 4.1 Work is completed and appropriate personnel are notified in accordance with workplace procedures.
- 4.2 Work area is cleared of waste, cleaned, restored and secured in accordance with workplace procedures.
- 4.3 Reusable material is collected and stored in accordance with workplace procedures.
- 4.4 Tools and equipment are cleaned, checked, maintained and stored in accordance with workplace procedures.
- 4.5 Work completion details are finalised in accordance with workplace procedures.

## **Registration Data**

<b>Subfield:</b>	Automotive Engineering
<b>Date first registered:</b>	28 September 2006
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<b>Body responsible for review:</b>	Namibia Training Authority