

- 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 commercial vehicles, heavy plant and earthmoving equipment.

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. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority website 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 standard tool set, special tools and testing equipment (including multimeter, engine and exhaust gas analyser), scan tools, vacuum gauge, pressure gauge, vehicle lifting equipment and manufacturers' specific equipment.

Materials may include but are not limited to spare parts 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 Material requirements are identified and obtained in accordance with repair order form and/or specifications.
- 1.5 Materials are safely handled and located ready for use in line with workplace procedures.
- 1.6 Technical and/or calibration requirements for tools and equipment are sourced and implemented in line with workplace procedures.
- 1.7 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Test and diagnose electronically controlled driver information systems

Range

Testing methods may include but are not limited to reading and interpreting wiring diagrams, operation and specification of input and output devices, interpretation of readings related to faults where the cause may be direct, indirect or intermittent, diagnosing, functional testing, measurements including fault codes, visual, aural and functional assessment (including damage, corrosion, electrical short or broken circuit, wear) in line with manufacturers' specifications.

Performance Criteria

- 2.1 Procedures and information required for testing and diagnosing electronically controlled driver information systems of a vehicle are identified and sourced in line with workplace procedures.
- 2.2 Testing is implemented according to workplace procedures and manufacturers' specifications.
- 2.3 Faults are diagnosed and documented with evidence and supporting information.
- 2.4 Testing results are compared with manufacturers' specifications.
- 2.5 Conditional report and recommendation made are forwarded to appropriate personnel in line with workplace procedures.

Element 3: Service electronically controlled driver information systems and/or associated components

Range

Service operations may include but are not limited to isolation of faults, removing and installing, disassembling and assembling, inspection and evaluation, adjustments, operational testing, repair, replacement and visual inspections in line with manufacturers' specifications.

Performance Criteria

- 3.1 Procedures and information required for service operations of electronically controlled driver information systems and/or associated components are identified and sourced in line with workplace procedures.
- 3.2 Service operations are implemented according to workplace procedures and manufacturers' specifications.
- 3.3 Adjustments made during the service operations are undertaken in line with manufacturers' specifications.
- 3.4 Unexpected or unplanned contingencies that are encountered in servicing electronic diesel control systems are addressed through applying workplace procedures, previous experience and manufacturers' technical information.
- 3.5 Fault codes are erased and final performance test is conducted and results compared with manufacturers' specifications.

Element 4: Complete work and clean up

Range

Work completion details may include but are not limited to repair order form, sign-out form for equipment, service record book and service plan form.

Performance Criteria

- 4.1 Work is completed and appropriate personnel 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 Equipment used is cleaned, checked, maintained and stored in accordance with workplace procedures.
- 4.5 Work completion details are finalised in accordance with workplace procedures.

Registration Data

Subfield:	Automotive Engineering
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