

thermostat, water pump, interior heater and heat exchanger and cooling system additives).

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), anti-freeze tester, block crack tester (CO detector), pressure tester, special tools and equipment as defined by the manufacturers.

Materials are to include but are not limited to cleaning agents and cooling flush.

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 quantity requirements are calculated in accordance with specifications.
- 1.5 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located, ready for use.
- 1.6 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Inspect cooling system

Range

Cooling system inspection is to include visual, aural and functional inspection including damage, wear, corrosion, fluid levels and leaks.

Performance Criteria

- 2.1 Warnings in relation to working with rotating devices are observed in line with workplace procedures.
- 2.2 Cooling system inspection is implemented in line with workplace procedures and manufacturers' specifications.
- 2.3 Results are checked for compliance with manufacturers' specifications.
- 2.4 Inspection results, along with evidence, supporting information and recommendations are documented in line with workplace procedures.
- 2.5 Report is forwarded to supervisor for action in line with workplace procedures.

Element 3: Test cooling system

Range

Testing methods are to include functional testing, pressure testing and coolant testing.

Performance Criteria

- 3.1 Method for testing cooling system is identified, selected and implemented in line with workplace procedures and manufacturers' specifications.
- 3.2 Test results are checked for compliance with manufacturers' specifications.
- 3.3 Test results, along with evidence, supporting information and recommendations are documented in line with workplace procedures.
- 3.4 Report is forwarded to supervisor for action in line with workplace procedures.

Element 4: Carry out servicing

Range

Servicing is to include checking fluid level and mixture, cleaning, adjusting, bleeding and operational testing.

Performance Criteria

- 4.1 Service is implemented in line with workplace procedures and manufacturers' specifications.
- 4.2 Adjustments are made during the service in line with manufacturers' specifications.

Element 5: Carry out repair of cooling system

Range

Repair methods are to include isolation of fault(s), dismantling, evaluation and replacement of components and/or parts, assembly and completion of operational tests and documents.

Adjustments may include but are not limited to driving belt, timing belt, and other cooling system components as required by the manufacturer.

Performance Criteria

- 5.1 Method for repair is identified, selected and implemented in line with workplace procedures and manufacturers' specifications.
- 5.2 Adjustments are made during the repair in line with manufacturers' specifications.

Element 6: 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

- 6.1 Work is completed and appropriate personnel notified in accordance with workplace procedures.
- 6.2 Work area is cleared of waste, cleaned, restored and secured in accordance with workplace procedures.
- 6.3 Reusable material is collected and stored in accordance with workplace procedures.
- 6.4 Tools and equipment are cleaned, checked and maintained in accordance with workplace procedures.
- 6.5 Work completion details are finalised in accordance with workplace procedures.

Registration Data

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