

Domain**AIR CONDITIONING AND
REFRIGERATION****Title:****Service electrical household appliances
as part of Air conditioning and
Refrigeration systems****Level: 3****Credits: 10****Purpose**

This unit standard specifies the competencies required to service electrical household appliances as part of Air conditioning and Refrigeration systems. It includes planning and prepares for work, inspecting and testing of electrical household appliances, repairing of faulty electrical household components as well as completion of work and do housekeeping. This unit standard is intended for those who work as Air conditioning and Refrigeration artisans.

Special Notes

1. Entry information:

Prerequisite

- Unit 567 - *Apply health and safety routines in an air conditioning and refrigeration workplace* or demonstrated equivalent knowledge and skills.

2. Assessment evidence may be collected from a real workplace or a simulated real workplace or an appropriate simulated realistic environment in which air conditioning and refrigeration operations are carried out.

3. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' specifications and/or company's guidelines and instructions.

4. Glossary of terms:

- '*electrical household appliances*' refers to beverage dispensers, fan, water coolers evaporative air coolers, washing machine and microwave ovens.
- '*specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, workplace specific requirements.

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

- Labour Act, No. 11, 2007
- Occupational Health and Safety Regulations No. 101, 1992 (act 6,1992)
- Occupational Health and Safety Regulations No. 18, 1997 and all subsequent amendments.

6. Performance of all elements in this unit standard must comply with industry standards.

7. This unit standard applies to single-phase and three-phase Air conditioning and Refrigeration 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. 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

Power tools may include but are not limited to grinders and drill machines.

Small appliances may include but are not limited to beverage dispensers, fan, and water coolers.

Performance Criteria

- 1.1 Work instructions, including job cards, specifications and operational details are obtained, confirmed and applied.
- 1.2 Workplace inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements is carried out.
- 1.3 Safety requirements are followed in line with safety plans and policies.
- 1.4 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.
- 1.5 Material requirements are identified and obtained in line with job card and/or specifications.
- 1.6 Materials are safely handled and located ready for use in line with workplace procedures.
- 1.7 Technical and/or calibration requirements for tools and equipment are sourced and implemented in line with workplace procedures.
- 1.8 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Inspect and test electrical household appliances.

Range

Inspection methods may include but are not limited to visual, aural and functional assessment (including damage, corrosion, leakage, wear) in line with manufacturers' specifications.

Operational tests may include but are not limited to mechanical tests and electrical circuit tests.

Performance Criteria

- 2.1 Procedures and information required for inspecting and testing electrical household appliance are identified and sourced in line with workplace procedures.
- 2.2 Appliance components are visually inspected in line with manufacturer's and workplace procedures.
- 2.3 Operational tests of small appliance and power tools are conducted.
- 2.4 Fault(s) are identified and reported to appropriate personnel in line with workplace procedures.

Element 3: Repair electrical household appliance.

Range

Repair methods may include but are not limited to disassembling and assembling and replacements of appliance components.

Performance Criteria

- 3.1 Procedures and information required for repairing appliance are identified and sourced in line with workplace procedures.
- 3.2 Appliance is isolated from power source.
- 3.3 Repair methods are implemented in line with workplace procedures and legislative requirements.
- 3.4 Component parts are tagged/ marked during the dismantling to help ensure correct and efficient reassembling and stored to protect them against loss or damage.
- 3.5 Replacement components or parts are obtained in line with workplace procedures

Element 4: Complete work and do housekeeping

Range

Work completion details may include but are not limited to job card and sign-out form for equipment.

Performance Criteria

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

Registration Data

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