

QUALIFICATION FACT SHEET – ELECTRICIAN

1. Qualification Information

Qualification Title	Occupational Certificate: Electrician
Qualification ID	91761
NQF Level	4
Credits	360
Duration	27 Months, (2 years, 3 months)
Accreditation Body	Quality Council for Trades and Occupations (QCTO)
Training Location	Doornfontein and Welkom

2. Purpose of the Qualification

The purpose of this qualification is to prepare a learner to operate as a **Electrician**. An Electrician installs, maintains, and repairs electrical wiring, equipment, and fixtures in residential, commercial, and industrial environments. The qualification equips learners with technical knowledge and practical skills to safely perform electrical work in compliance with statutory and safety requirements.

Qualified learners will be able to:

- Interpret and apply electrical drawings, wiring diagrams, and technical specifications.
- Install, connect, and maintain electrical equipment and systems.
- Test, fault-find, and repair electrical circuits and installations.
- Apply health, safety, environmental, and quality standards in the workplace.
- Ensure compliance with electrical codes and statutory regulations.

3. Exit Level Outcomes

Upon completion, learners will be able to:

1. Plan, prepare, and perform electrical installations according to drawings, specifications, and safety standards.
2. Install and maintain electrical systems, wiring, and equipment in residential, commercial, and industrial settings.
3. Diagnose, test, and repair electrical faults in systems and components.
4. Apply safety procedures and statutory requirements in all electrical work.
5. Demonstrate knowledge of electrical principles, materials, and components.

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4. Entry Requirements

- Minimum: Grade 10 / 11/ 12, or Equivalent qualifications
- NQF Level 1 with English/Communication, Mathematics and Science.
- Recognition of Prior Learning (RPL) is permitted, subject to institutional and QCTO policies.
- Proficiency in English.

5. Course Modules and Structure

Knowledge Modules – Duration **3 months** – Credits **91**

- Fundamentals of Electrical Engineering
- Electrical Circuits and Systems
- Fault Finding and Maintenance Principles
- Renewable and Sustainable Energy Systems
- Occupational Health, Safety and Environment

Practical Modules – Duration **9 months** – Credits **113**

- Electrical wiring and panel installation
- Testing and Fault diagnosis using instruments
- Maintenance and repair of motors, transformers, and switchgear
- Installation of renewable energy systems (e.g., solar PV)

Work Experience Modules – Duration **12 months** – Credits **156**

- Workplace exposure to domestic, commercial, and industrial projects
- Practical application of wiring, and connection of electrical equipment and control systems, fault-finding, inspection, and repair tasks
- Supervised integration of renewable energy systems

External Integrated Summative Assessment (EISA) readiness, Serial Numbers and EISA – Duration **3 months**

- Serial Numbers Application
- Trade Test Preparation
- Trade Test

Total Duration **27 months**

Total Credits **360**

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6. Progression Opportunities

- Graduates may progress to roles such as Master Electrician, Electrical Supervisor, or Maintenance Manager.
- Further progression opportunities include advanced qualifications in Electrical Engineering or related fields.

7. Industries of Application

- Residential, commercial, and industrial electrical installations
- Power generation and distribution utilities
- Mining and heavy industries
- Manufacturing plants
- Maintenance and repair service industries

8. Accreditation and Quality Assurance

This qualification is accredited by the **Quality Council for Trades and Occupations (QCTO)**. Assessment and certification are conducted under the QCTO framework and in compliance with national standards for occupational qualifications.

9. Contact Information

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