



TRANSPORTATION ELECTRICIAN / AUTO ELECTRICIAN

Qualification Purpose

The purpose of this trade qualification is to prepare a learner to operate as an Automotive Electrician. An Automotive Electrician tests, diagnoses, services, replaces, repairs, and maintains automotive electrical wiring, electrical and electronic systems, and their components.

Foundational Learning Competence (SAQA Minimum Entry Level)

NQF Level 1 qualification with Mathematics and Science

Trade Test Requirements

Learner should have passed:

- N2 Mathematics, Engineering Science, Engineering Drawings, Motor Electrical Trade Theory
- N2 Certificate including the four relevant subjects of maths, engineering science and a fourth subject as required by the trade: or
- technical trade theory programs quality assured by a SETA deemed to be equivalent to NQF level 3 (N2); or
- Relevant Engineering NCV Certificate with seven subjects at NQF level 3; or
- Technical Grade 11 with Maths, Science, Language, and related trade theory subject; or
- Relevant (directly related to the trade theory subjects) N6 certificate or National Technical Diploma (T, S or N stream.)

In addition to the above-mentioned minimum educational qualification the applicant must also have:

- Successfully completed all off the job practical training unit standards (in the case of learnerships) or modules (in the case of an apprenticeship) of an artisan learning program at an accredited training provider as verifiable by training records (logbook).
- Satisfied the requirements of the structured workplace, on the job, learning for a minimum period of 12 months verifiable through a workplace learning record (e.g. logbook) unless any other workplace period has been contractually specified before the date of publication of this Regulation.

Note: A Logbook is a record of all training the learner has received, contributing to their portfolio of evidence.

Skills Obtained as Outcomes

- Remove and install a range of original/aftermarket/auxiliary auto-electrical equipment and/or components/systems.
- Test, diagnose, replace and service automotive batteries and related components.
- Test, diagnose and repair automotive starting and charging systems.
- Conduct basic vehicle service operations in an auto-electrical environment.
- Test, diagnose and repair automotive networking and data transfer systems and supplemental restraint systems (SRS) Test, diagnose and repair systems for integrated engine management (fuel injection and ignition), vehicle stability, traction, and drive control (VSTDC), transmission, ABS braking, and driver assistance.
- Test, diagnose and repair systems for heating, ventilation, and air-conditioning (HVAC), climate control, convenience, security, and telematics.

Qualification Outcome

Qualified Auto-Electrician / Transportation Electrician (red seal) Internationally Recognised

Types of Jobs Pertaining to the Trade

- Entrepreneur / Contractor
- as an employee in any of the industries listed

Industries where they can work if qualified.

- Mining
- Manufacturing
- Agriculture
- Civil
- anywhere where there are auto electrical systems to be maintained.

Approximate Course Duration

Off the job practical training

- Phase 1 – Duration – 12 Weeks
- Phase 2 – Duration – 12 Weeks
- Phase 3 – Duration – 8 Weeks
- Phase 4 – Duration – 4 Weeks (Revision and Trade Test)

Workplace (on the job) experience

- 18 months. Registered learner with a SETA.
- 3 years ARPL route.

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