Qualification Information:	Qualification Title	SAQA ID	NQF Level	Credits
Curriculum Code:	Occupational Certificate: Electrician	91761	4	360

Knowledge Component		Notional Hours	Implementation Schedule (4hourly session)	Assessment Schedule	Training Venue
671101000-KM-01:	Health, Safety, Quality and Legislation (NQF Level: 4) Credits: 5	50 Hours	13 days	2 days	Main Campus
671101000-KM-02:	Tools, Equipment and Materials (NQF Level: 4) Credits: 8	80 hours	20 days	2 days	Main Campus
671101000-KM-03:	Electricity and electronics (NQF Level: 4) Credits: 13	130 hours	33 days	2 days	Main Campus
671101000-KM-04:	Industry Context (NQF Level: 3) Credits: 2	20 hours	5 days	2 days	Main Campus
671101000-KM-05:	Wire ways and wiring (NQF Level: 4) Credits: 11	110 hours	28 days	2 days	Main Campus
671101000-KM-06:	Rotating electrical machinery (NQF Level: 4) Credits: 13	130 hours	33 days	2 days	Main Campus
671101000-KM-07:	Electrical supply systems and components (NQF Level: 4) Credits: 31	310 hours	78 days	2 days	Main Campus
671101000-KM-08:	Low Voltage protection (NQF Level: 4) Credits: 5-	50 hours	13 days	2 days	Main Campus
671101000-KM-9:	Fault Finding (NQF Level: 4) Credits: 3	30 hours	8 days	2 days	Main Campus
Practical Component			**6 Hourly Training Session**		
671101000-PM-01:	Use hand and power tools, L3, Cr22	220 hours	37 days	7 days	Electrical & Electronics Workshop
671101000-PM-02:	Plan and prepare process for the wiring, connection, testing, inspecting, commissioning and maintaining of electrical installations and control systems, L3, Cr5	50 hours	9 days	7 days	Electrical & Electronics Workshop
671101000-PM-03:	Prepare worksite set up for installing, wiring and connecting electrical equipment and control systems, L3, Cr3	30 hours	5 days	7 days	Electrical & Electronics Workshop
671101000-PM-04:	Install wire-ways, L4, Cr5	50 hours	9 days	7 days	Electrical & Electronics Workshop
671101000-PM-05:	Install, wire and connect electrical equipment and control systems, L4, Cr38	380 hours	64 days	7 days	Electrical & Electronics Workshop
671101000-PM-06:	Conduct pre-commission inspection (power off;) fault find and test new and existing installations, L4, Cr5	50 hours	9 days	7 days	Electrical & Electronics Workshop
671101000-PM-07:	Carry out commissioning tests, L4, Cr13	130 hours	22 days	7 days	Electrical & Electronics Workshop
671101000-PM-08:	Fault find and repair electrical control systems and electrical installations, L4, Cr22	220 hours	37 days	7 days	Electrical & Electronics Workshop
Workplace Component			**8 Hourly Training Session**		
671101000-WM-01:	Plan and prepare for the wiring, connection, testing, inspecting, commissioning and maintaining of electrical installations and control systems, L4, Cr 8	80 hours	10 days	7 days	Electrical Workshop / Site

671101000-WM-02:	Processes of installation, wiring and connection of electrical equipment and control systems, L4, Cr74	740 hours	93 days	7 days	Electrical Workshop / Site
671101000-WM-03:	Processes of testing and inspecting of electrical equipment, control systems and installations, L4, Cr15	150 hours	19 days	7 days	Electrical Workshop / Site
671101000-WM-04:	Processes of commissioning electrical installations and control systems, L4, Cr15	150 hours	19 days	7 days	Electrical Workshop / Site
671101000-WM-05:	Maintenance processes for electrical installations and control systems, L4, Cr 44	440 hours	55 days	7 days	Electrical Workshop / Site

General Information

The QCTO curriculum contents of Knowledge Modules, Practical Modules, and workplace modules, the apprentices in this qualification will be exposed to theory, practice, and workplace exposure during the 3-year program. The Qualification is implemented via a dual system approached, meaning apprentices must rotate from college to workplace every during the learning program.

Who is an Electrician?

Electricians are involved in the generation, transmission, distributions and usage of electricity.

They install, repair and maintain electrically operated equipment such as generators, geysers, refrigerators and stoves. They detect electrical faults and repair. Repairs may involve replacing fuses, switches or wires; once the repair is complete the electrician tests the equipment to ensure that it is working.

By law, only qualified electricians are allowed to connect cables to electric motors and switch gear and to handle the electrical wiring of all electrically equipped buildings- During the building, for example, of a new factory, an electrician must ensure that the electrical cables are installed.

Electricians working at power stations install and maintain power generators, including the servicing of electrical meters and transformers. Some perform regulatory functions. Inspectors on motors, switch gear and transformers to ensure safe functioning.

Entry Requirements

- Grade 9/10/11/12 Or NQF Level 1 with Mathematics, Science.

Occupational Purpose

The purpose of this qualification is to prepare a learner to operate as an electrician. Installs, tests, connects, commissions, maintains and alter/repair electrical equipment.

wiring and control systems.

Output

- Qualified tradesman with a red seal or trade test after 3 years.

- The candidate will pass the new trade test that includes both theory assessment (**Formative Assessments**), **Summative Assessments** & **Practical Assessments**

Career

- Domestic Electrician / Construction Electrician / Electrical Technician

Course Requirements:

- PPE – (Purchase from College)
- Safety Boots
- Study Material
- Log Book

INTERNAL CONTINOUS ASSESSMENT (ICASS)

Our internal Assessments are not limited to the following:

• Workplace tasks (e.g. case studies)
• Briefs • Practical Demonstrations
• Assignments/Tests
• Projects, etc.

Internal **QA** processes must be in place by
the **SDP** to ensure these assessments are fit for purpose

EXTERNAL ASSESSMENT

• External assessments are managed and conducted by Quality Partners –
a national standard is set.
• Only learners that have enrolled and registered with the **QCTO** may sit for the **EISA**
• Submission of **SoR** to **QCTO** prior to **EISA**
• This is a competency based final assessment
• Approval of Results and Certification by the **QCTO**

FINAL ASSESSMENTS

EISA

The **External Integrated Summative Assessment** (EISA) is the final assessment managed and conducted by the Quality Partner/Assessment Quality Partner; it is used to assess all learners nationally. In the **EISA** the learner proves his/her competence against the Exit Level Outcomes of the Qualification. Learners qualify for entry into **EISA** via a **Statement of Results (SoR)** issued by the **SDP** or the institution used in the **RPL** route.

The **EISA** is conducted for a particular qualification or part qualification at accredited assessment or trade test centres.

EISA Benefits Industry/Employers – by ensuring that learners will be competent workers as they would have had to demonstrate competencies in in work related tasks or scenarios during the **EISA**.

CERTIFICATION

SDPs are not allowed to print their own certificates for occupational qualifications. Certificates are issued by the QCTO's secure CVS certification system.

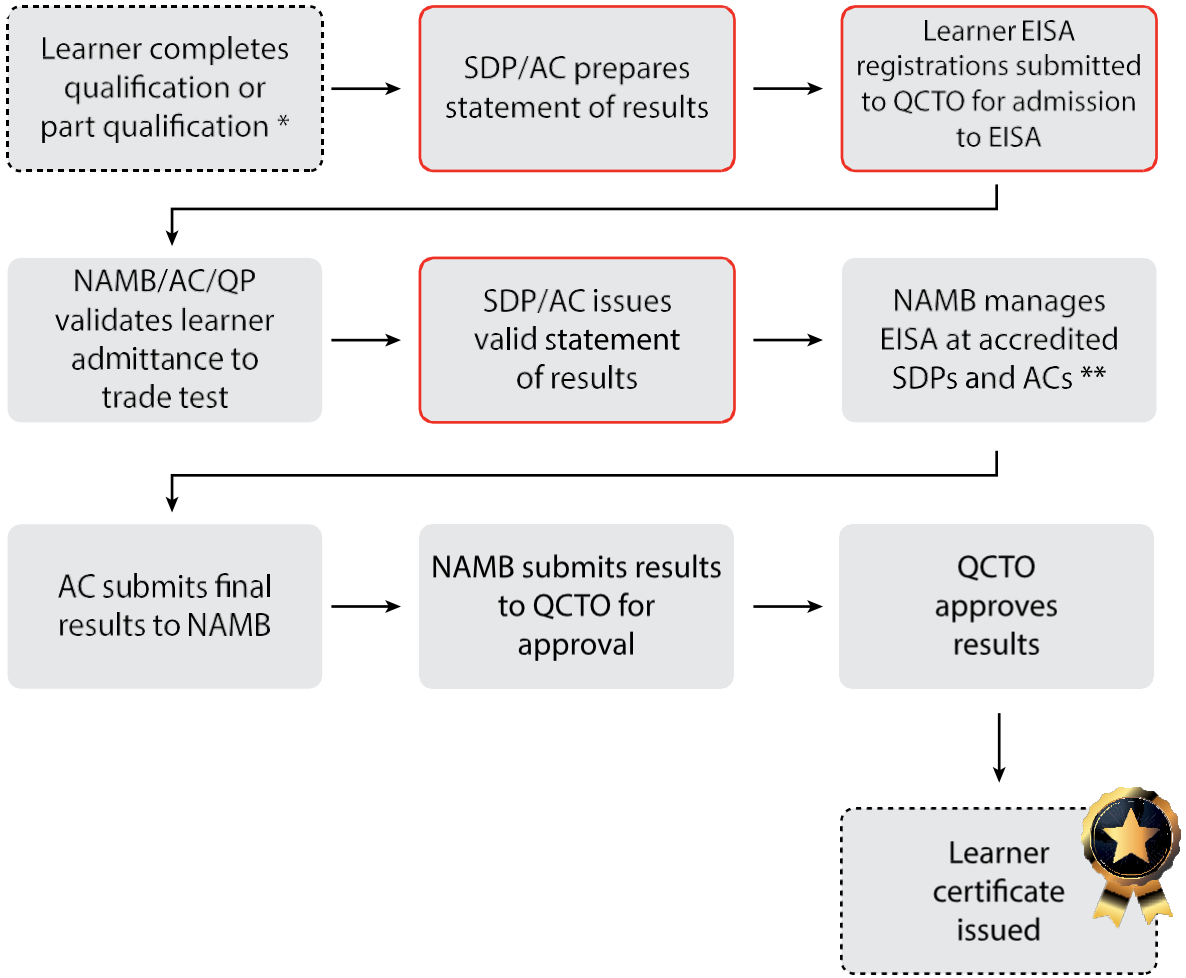
The QAS document specifies the timeline for the EISA assessment and moderation process, but this is usually about 21 days. From there, the QCTO aims to approve the results in 21 days, after which it should take the QCTO 21 days to issue the learner certificates.

Fees

- Registration Fees: **R1000**
- Deposit: **R5000 (Includes Student Card, Course Material/ Study Material / Assessments Fees)**
- Monthly Instalment: **R3000**
- Duration: **3 Years**

External Integrated Summative Assessment Process

Trades



* Either via formal training with SDP or via ARPL with AC

** Learners complete the written component of the EISA at the SDP. The SDP marks & moderates this final assessment and submits results to the AC where the learner will sit for the practical component (trade test). The learner needs to register at an accredited Assessment Centre.