



# NIMET

**Electrical Engineering Qualification Title: Electrician**

**Qualification Level: Occupational Certificate NQF 4**

**SAQA ID: 91761**

**Credits: 360 credits**

**Duration: 3 years (for Part time, Distance Learning and Full time)**

This course will develop you with skills to be proficient and understand how to function in the Construction/Engineering Industry in different Business Worlds.

**Admission Requirements:**

NQF Level 1 with Math and Science, or Full Matric or Grade 12 certificate or Matric equivalent qualification

## Course Content

### First year

<b>First Semester</b>		
<b>Knowledge Modules</b>	<b>NQF Level</b>	<b>Credits</b>
Health, Safety, Quality and Legislation	4	5
Tools, Equipment and Materials	4	8
Electricity and Electronics	4	13
Wireways and Wiring	4	11
Low Voltage Protection	4	5
Fault Finding	4	3

<b>Second Semester</b>		
<b>Practical Skill Modules</b>	<b>NQF Level</b>	<b>Credits</b>
Use hand and power tools	3	22
Plan and prepare the process for the wiring, connection, testing, inspecting, commissioning and maintaining electrical installations and control systems	3	5
Prepare work site setup for installing, wiring and connecting electrical equipment and control systems	3	3
Install Wireways	4	5
Fault finding and repair electrical control systems and electrical installations	4	22



## Second year

<b>First Semester</b>		
<b>Work Experience Modules</b>	<b>NQF Level</b>	<b>Credits</b>
Planning and preparation process for the wiring connecting, testing, inspecting, commissioning and maintaining of electrical installations and control systems	4	8
Processes of installation, wiring and connection of electrical equipment and control systems	4	74

<b>Second Semester</b>		
<b>Knowledge Modules</b>	<b>NQF Level</b>	<b>Credits</b>
Industry Contexts	3	2
Rotating Electrical Machinery	4	13
Electrical Supply Systems and Components	4	31

## Third year

<b>First Semester</b>		
<b>Practical Skill Modules</b>	<b>NQF Level</b>	<b>Credits</b>
Install, wire and connect electrical equipment and control systems	4	38
Conduct pre-commission inspection (power on and off) fault find and test new and existing installations	4	5
Carry out commissioning tests	4	13

<b>Second Semester</b>		
<b>Work Experience Modules</b>	<b>NQF Level</b>	<b>Credits</b>
Processes of testing and inspecting of electrical equipment, control systems and installations	4	15
Processes of commissioning electrical installations and control systems	4	15
Maintenance processes for electrical installations and control systems	4	44

- On successful completion of the programme, the student will receive a National Certificate from QCTO through **SEBENZISANANE HUMAN CAPITAL (Accreditation no: SDP1220/17/00126)**
- Course fees: R23000 per year. These study fees include the cost for study material.
- If you register for this course, you will have access to a free Business Establishment and Development course, Revit and Revit MEP.
- 10% of the fees must be paid to complete registration

### Disclaimer:

The content of this brochure, accurate at the time of going to print, is subject to change without notification due to legislation, market requirements or any other reason. NIMET reserves the right to change the programme content without notice.