

# Your #1 Private College of choice

for Artisan Development   
 HDUQHUVKLSV, Business and   
 other Skills Programmes.

Quality Council for  
 Trades & Occupation

# ELECTRICIAN

## OVERVIEW

The future for electricians in South Africa and around the globe is wired for growth. The high demand for qualified and skilled electrical practitioners provides opportunities in a number of sectors including residential, commercial, industrial, telecommunications and transport. With many career paths to choose from, this is a rewarding occupation for people who are hands on with an interest in technology. An electrician is a tradesperson specializing in electrical wiring of buildings, machines and related equipment. The scope of this trade is from installation, through to maintenance and repair of related electrical infrastructure. This qualification prepares a learner to operate as an electrician in compliance with the latest industry regulations, developments and trends. The key competencies recognized in this field include the ability to do fault finding, maintain, repair and install electrical problems and repairing equipment during operation. These capabilities require sound understanding of electrical theory and drawings, wiring and control systems, components, instrumentation and materials.

## PROGRAMME OUTLINE

### Knowledge Modules:

- Health, safety, quality and legislation.
- Tools, equipment and materials.
- Electricity and electronics.
- Industrial context.
- Rotating electrical machinery.
- Electrical supply systems and components.
- Low voltage protection.
- Fault finding.
- Wire-ways and wiring.

### Practical Skills Module:

- Use hand and power tools.
- Plan and prepare process for the wiring, connection, testing, inspecting, commissioning and maintaining of electrical installations and control systems.
- Prepare work-site set up for installing, wiring and connecting electrical equipment and control systems.
- Install wire-ways.
- Install, wire and connect electrical equipment and control systems.
- Conduct pre-commission inspection (power off) fault finding and test new and existing installations.
- Carry out commissioning tests.
- Fault find and repair electrical systems and electrical installations.

### Work Experience Module:

- Plan and prepare for the wiring, connection, testing, inspecting, commissioning and maintaining of electrical installations and control systems.
- Processes of installations, wiring and connection of electrical equipment, control systems and installations.
- Processes of commissioning electrical installations and control systems.
- Maintenance processes for electrical installations and control systems.

#### Specifications and Duration:

Credits: 360 | Duration: 3 Years

#### Entry Requirements:

NQF Level 1 or GR9 qualification

*The college reserves the right to allow entry based on individual evaluation criteria.*

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