

# Empowering Your Possibilities

Globally Accepted

QCTO Accreditation Unique ID:  
SDP290424104010

Visit Our Website  
[www.atscollege.co.za](http://www.atscollege.co.za)



# About Us

ATS College is a QCTO Accredited Trade Training Centre. At our Engineering Trades Training Centre, we're sparking the future of the engineering industry.

With state-of-the-art facilities and expert instructors, we're empowering the next generation of artisans with the knowledge and skills they need to excel in dynamic fields.

Our centre provides a hands-on learning experience where students can work with real-world equipment and tackle practical challenges.

Electrical panel wiring, fault finding and commissioning, rotating Electrical motors, house wiring, PLCs, and electronics—our curriculums are designed to cover all aspects of engineering trade work, ensuring that our graduates are well-prepared for the demands of the industry.

But it's not just about technical skills. We also emphasize safety, professionalism, and teamwork. We are instilling in our students the values essential for success in any workplace. Whether you're just starting your journey in the engineering Trade field, or looking to advance your career, our training center is the place to be.

**JOIN US AND ELECTRIFY YOUR FUTURE!**



# Trade Process

## Full or Part-Time Route

**Phase 1**  
3-6 Months Knowledge / Practical Skills

**Phase 2**  
3-6 Months Knowledge / Practical Skills

**Phase 3**  
3-6 Months Knowledge / Practical Skills

**30 Months**  
Workplace Experience

**3 Weeks**  
Trade Prep

**Trade**  
Trade Test

## RPL Route (+3yrs experience)

**Trade CAP Analysis Test**

**30 Days Trade prep**

**Trade Trade Test**





# Admission Requirements

- Grade 9 (Std 7) Certificate with a pass in Mathematics and Physical Science
- NI Pass (with mathematics and science) OR
- Vocational or Further Education Certificate at any level OR
- Recognition of prior learning through an RPL process

**IMPORTANT:** If you don't meet our minimum entry requirement, you can still apply for special admission, regardless of what formal education you have. Please note that there are terms and conditions for this application, and all approvals will be made at the discretion of the Academic Board.

## Regulatory Information

Qualifying for external assessment: In order to qualify for an external assessment, learners must provide proof of completion of all required modules by means of statements of results and work experience.

An external integrated summative assessment, conducted through the relevant QCTO Assessment Quality partner is required for the issuing of this qualification. The external integrated summative assessment will focus on the Exit Level Outcomes and associated assessment criteria.

The external assessment model requires that the external assessment will be conducted through practical task at an accredited trade test centre. The examination and practical tasks will be concluded at an accredited assessment centre and marked by registered assessors. The trade test will be conducted over a period of two working days.

# Phase 1 – Basic



## **Health, Safety, Quality and Legislation (NQF 4)**

The main focus of the learning in this knowledge module is to build an understanding of the health, safety and other legislative requirements for the practice of an Electrician. The learning will enable learners to demonstrate an understanding of KM-01-KT01: Safety, health, environment, risk and quality principles in the workplace (100%)

## **Industry Context (NQF 3)**

The main focus of the learning in this knowledge module is to build an understanding of the industry context of an Electrician. The learning will enable learners to demonstrate an understanding of: KM-04-KT01: Introduction to the world of work and the electrical trade (100%)

## **Tools, Equipment and Materials (NQF 4)**

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the use of hand tools, power tools and measuring and testing instruments to practice as an Electrician. The learning will enable learners to demonstrate an understanding of: KM-02-KT01: Hand tools and power tools (5%) KM-02-KT02: Measuring and testing instruments (50%)

## **Install wireways (NQF 4)**

The focus of the learning in this module is on providing the learner an opportunity to: Practice electrical skills within a simulated work environment. The learners will be practicing skills related to installing wire-ways. The learner will be required to: PM-04-PS01: Confirm the selection and installation method of the selected wire ways PM-04-PS02: Use installation tools and equipment PM-04-PS03: Design and install wire ways

## **Install, wire and connect electrical equipment and control systems (NQF 4)**

The focus of the learning in this module is on providing the learner an opportunity to: Practice electrical skills within a simulated work environment. The learners will be practicing skills related to install, wire and connect electrical equipment and control systems. The learner will be required to: PM-05-PS01: Identify hazards within the installation PM-05-PS02: Confirm the selection and installation method of the electrical equipment and control systems PM-05-PS03: Use installation tools and personal protective equipment PM-05-PS04: Install equipment and control systems 14 PM-05-PS05: Wire electrical equipment and control systems PM-05-PS06: Terminate and connect cables and conductors

# Phase 2 - Intermediate

## Rotating Electrical Machinery (NQF 4)

The main focus of the learning in this knowledge module is to build an understanding of the theory of rotating electrical machinery required to practice as an Electrician. The learning will enable learners to demonstrate an understanding of KM-06-KT01: Rotating electrical machinery - AC motors (35%) KM-06-KT02: Rotating Electrical Machinery - DC motors (35%) KM-06-KT03: Rotating electrical machinery - Alternators and Generators (30%)

## Fault find and repair electrical control systems and electrical installations (NQF 4)

The focus of the learning in this module is on providing the learner an opportunity to: Practice electrical skills within a simulated work environment. The learners will be practicing skills related to fault find and repair electrical control systems and electrical installations The learner will be required to PM-08-PS01: Obtain work instructions and gather drawings and documentation PM-08-PS02: Select tools and testing instruments PM-08-PS03: Carry out fault finding PM-08-PS04: Rectify faults where applicable PM-08-PS05: Record findings and provide feedback

## Fault Finding (NQF 4)

The main focus of the learning in this knowledge module is to understand the theory of fault finding required to practice as an Electrician. The teaching will enable learners to demonstrate an understanding of KM-09-KT01: Fault finding (5%)

## Panel wiring

- Single phase Forward and reverse
- Three-phase forward reverse
- Star Delta Forward Reverse
- Sequence wiring (1-12)
- Energy wiring
- Resistance starter



# Phase 3 – Advance Complete after 3 years experience

## **Carry out commissioning tests (NQF 4)**

The focus of the learning in this module is on providing the learner an opportunity to: Practice electrical skills within a simulated work environment. The learners will be practicing skills related to carrying out commissioning tests The learner will be required to: PM-07-PS01: Carry out commissioning tests (with power on) on electrical installations and control systems PM07-PS02: Rectify defects found on electrical installations and control systems PM-07-PS03: Report product deficiencies and rectify workmanship

## **Panel wiring and fault finding**

PLC, trace, and locate

Oscillating, tracing, and locating

Autotransformer, trace, and locate

Dual speed selector switch, trace and locate

Resistance start trace and locate

CT/VT wiring

Lovato star/ Delta

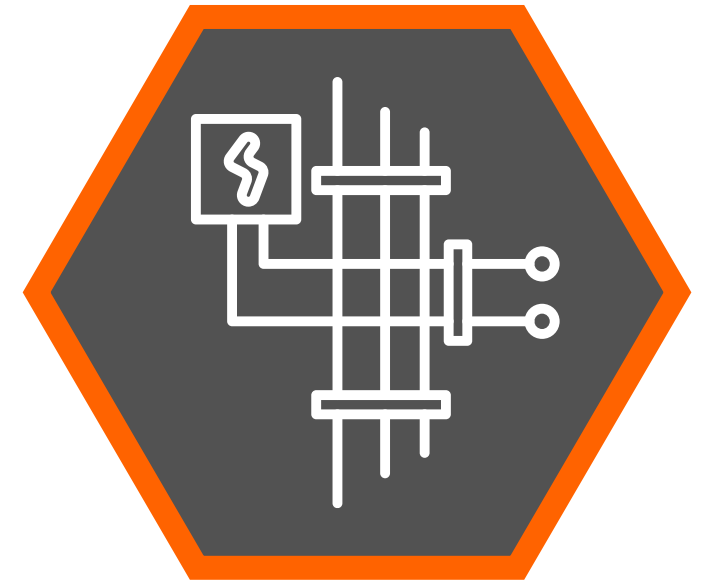
Primary resistance starter trace and locate



# Workplace Experience

## Planning and preparation process for the wiring, connecting, testing, inspecting, commissioning and maintaining of electrical installations and control systems (NQF 4)

The focus of the work experience is on providing the learner an opportunity to: Gain exposure to work as part of a team in the planning and preparation process for the wiring, connection, testing, inspecting, commissioning, and maintaining of electrical installations and control systems in a real life electrical environment. The Learner will be required to complete each Work Experience at least three (3) times. The learner will be required to: WM-01-WE01: Observe and assist a qualified person in the planning and preparation process for electrical installations and control systems WM-01-WE02: Plan and prepare for electrical installations and control systems under the direct supervision of a qualified person WM-01-WE03: Undertake all activities without assistance, but under supervision, to plan and prepare for electrical installations



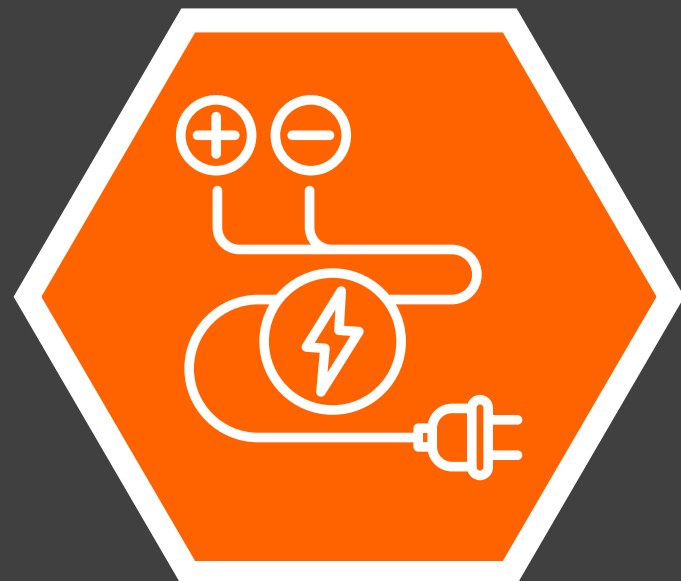
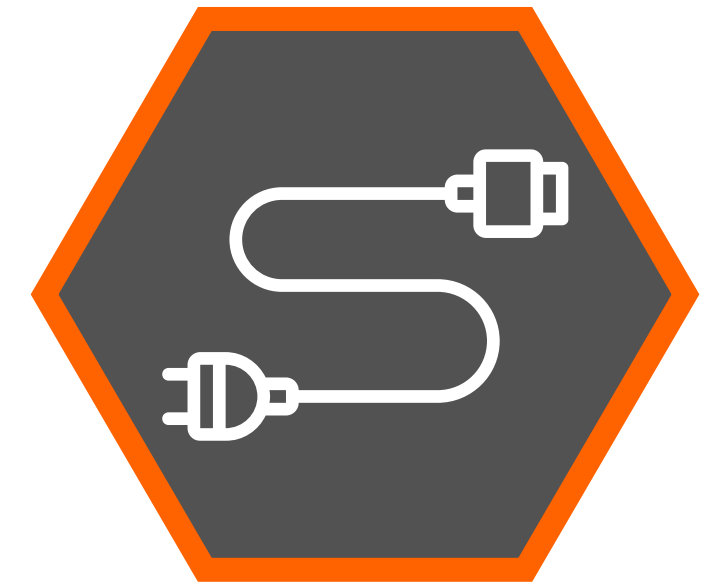
## Processes of installation, wiring and connection of electrical equipment and control systems (NQF 4)

The focus of the work experience is on providing the learner an opportunity to: Gain exposure to work as part of a team in the process of wiring, connection of electrical equipment and control systems in a real life electrical environment. The Learner will be required to successfully complete each Work Experience at least three (3) times. The learner will be required to: WM-02-WE01: Observe and assist a qualified electrician in the processes of installation, wiring and connection of electrical equipment and control systems WM-02-WE02: Install, wire and connect electrical equipment and control systems under the direct supervision of a qualified electrician WM-02-WE03: Undertake all activities without assistance, but under supervision, to install, wire and connect electrical equipment and control



## Processes of testing and inspecting of electrical equipment, control systems and installations (NQF 4)

The focus of the work experience is on providing the learner an opportunity to: Gain exposure to work as part of a team in the processes of testing and inspecting of electrical equipment, control systems and installations in a real life electrical environment. The Learner will be required to successfully complete each Work Experience at least three (3) times. The learner will be required to: WM-03-WE01: Observe and assist a qualified person in the processes of testing and inspecting of electrical equipment, control systems and installations WM-03-WE02: Processes of testing and inspecting of electrical equipment, control systems and installations under the direct supervision of a qualified person WM-03-WE03: Undertake all activities without assistance, but under supervision, in the processes of testing and inspecting of electrical equipment, control systems and installations.

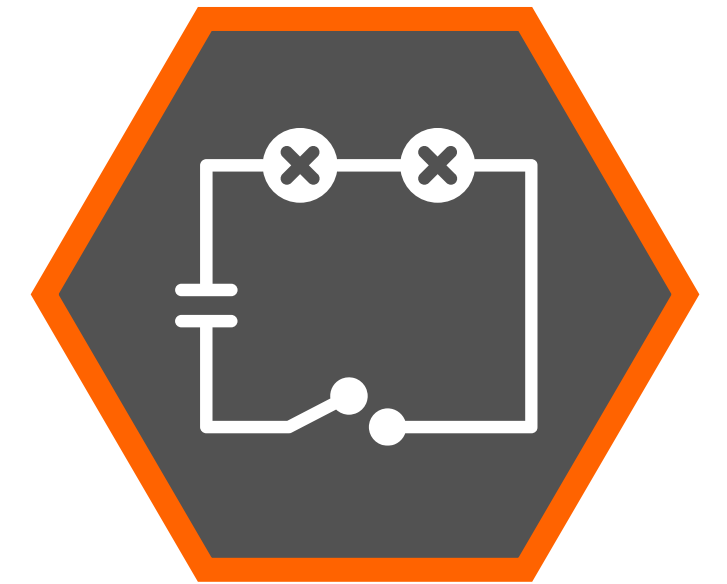


## Processes of commissioning electrical installations and control systems (NQF 4)

The focus of the work experience is on providing the learner an opportunity to: Gain exposure to work as part of a team in the processes of commissioning electrical installations and control systems in a real life electrical environment. The Learner will be required to successfully complete each Work Experience at least three (3) times. The learner will be required to: WM-04-WE01: Observe and assist a qualified person in the processes of commissioning electrical installations and control systems WM-04-WE02: Processes of commissioning electrical installations and control systems under the direct supervision of a qualified person WM-04-WE03: Undertake all activities without assistance, but under supervision, to commission electrical installations and control systems

## Maintenance processes for electrical installations and control systems (NQF 4)

The focus of the work experience is on providing the learner an opportunity to: Gain exposure to work as part of a team in the maintenance processes for equipment, control systems and electrical installations in a real-life electrical environment. The Learner will be required to successfully complete each Work Experience at least three (3) times. The learner will be required to: WM-05-WE01: Observe and assist a qualified person in the maintenance processes for equipment, control systems and electrical installations WM-05-WE02: Maintenance processes for equipment, control systems and electrical installations under the direct supervision of a qualified person WM-05-WE03: Undertake all activities without assistance, but under supervision, in maintenance processes for equipment, control systems and electrical installations



# Fee structure



## Basic Phase

12 weeks of Knowledge / Practical Skills

The focus of the basic training will be on establishing a basis for electrical knowledge:

- Health and safety in the workplace
- Hand tools and measuring instruments
- Electricity and Electronics
- Wireways

Practical skills:

- Use of hand tools
- Use of electrical measuring instruments (Volt, OHM meter)
- Single & 3-phase wiring (Domestic)
- Basic electronics
- Gas cutting and welding
  
- R 30 000 cash no registration fee
  
- Installments:
  - Registration fee of R 3500
  - 5 x R 6000 pm

ON COMPLETION, A CERTIFICATE OF TRAINING WITH A STATEMENT OF RESULTS WILL BE ISSUED

# Fee structure



## Intermediate Phase

12 weeks of Knowledge / Practical Skills

The focus of the basic training will be on establishing a basis for electrical knowledge:

- Rotating Electrical Machinery
- Electrical Supply Systems and Components
- Low Voltage Protection

Practical skills:

- Motor sequencing
- Panel wiring (Direct online, Star/ Delta)
- Star/ Delta forward reverse panel wiring
- Oscillating panel wiring
- PLC panel wiring
- 3KW Energy meter Panel wiring
- Single phase Forward and reverse
- Three-phase forward reverse
- Resistance starter
  
- R 40 000 cash no registration fee
  
- Installments:
  - Registration fee of R 3500
  - R 6 x 6667 pm

ON COMPLETION, A CERTIFICATE OF TRAINING WITH A STATEMENT OF RESULTS WILL BE ISSUED

# Fee structure



## Advance Phase

12 weeks of Knowledge / Practical Skills

The focus of the basic training will be on establishing a basis for electrical knowledge:

- Fault Finding

Practical skills:

- Auto resistance wiring, trace and locate a fault
- 2-speed wiring, trace and locate fault
- Tapping Transformer wiring
- Load balancing wiring, trace and locate
- Autotransformer, trace, and locate
- Dual speed selector switch, trace and locate
- Resistance start trace and locate
- CT/VT wiring
- Lovato star/ Delta
- Primary resistance starter trace and locate
  
- R 40 000 cash no registration fee
  
- Installments:
  - Registration fee of R 3500
  - R 6 x 6667 pm

ON COMPLETION, A CERTIFICATE OF TRAINING WITH A STATEMENT OF RESULTS WILL BE ISSUED

# Fee structure



## Distance Learning

12 months Knowledge / Practical Skills

The focus of the basic training will be on establishing a basis for electrical knowledge:

Knowledge modules:

Complete 9 theoretical modules

Practical skills:

Complete 8 Practical modules

Knowledge Modules price

- R 30 000 cash no registration fee
- Installments:
- R 2500pm x 12 + R 3500 registration fee

Practical's (No down payments)

- R 40 000 cash or R 5000 per practical module

ON COMPLETION, A CERTIFICATE OF  
TRAINING WITH A STATEMENT OF  
RESULTS WILL BE ISSUED



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Accreditation Number: 08-QCTO/SDP290424104010

Head of Institution  
Organisation Unique ID: 2023/003534/07  
Accreditation Unique ID: SDP290424104010  
Accredited Training Solutions  
Website Address: <https://atscollege.co.za/>  
Contact Number: 054 521 6103  
95 Ueufees Street  
Lydenburg  
Mpumalanga  
1120

E-mail: [louis@atscollege.co.za](mailto:louis@atscollege.co.za)

Dear Sir/Madam Louis van Rooyen,

**Accreditation of Accredited Training Solutions Trading as Accredited Training Solutions as a Skills Development Provider (SDP)**

The subject above refers:

The Quality Council for Trades and Occupations (QCTO) has set [policies](#) to accredit Skills Development Providers (SDPs). This ensures that education and training in occupations and trades offered in the country are credible and valid. This is in accordance with the [Skills Development Act \(SDA\) \(Act No 97 of 1998\)](#) Chapter 6C as well as the [Continuing Education and Training Act 16 of 2005](#).

The QCTO, after receiving your application, conducted a site inspection of the above institution premises, and we hereby Accredite **Accredited Training Solutions** to offer the following qualifications/programmes at the above accredited physical address for a period of 5 Years starting from 4/26/2024 12:00:00 AM to the 4/25/2029 10:00:00 PM., or until the expiry of the qualification or de-accreditation whichever comes first.

Qualification / Programme Title	NQF Level	ID or OFO Code	Minimum Credits
Occupational Certificate: Electrician	NQF Level 04	91761	360

Yours sincerely

Mr Emmanuel R Mbuwe  
Chief Director: OQA  
Date: 4/26/2024 12:00:00 AM  
Accreditation Number: 08-QCTO/SDP290424104010





# Contact Us

At ATS College, we're committed to providing excellent education and support for all our students. Whether you have a question about admissions, programs, or student services, we're here to help. Reach out to us today, and a member of our team will assist you with your inquiry.

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Lydenburg, & White River





# Thank You

For The Opportunity

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