

91 Newton Road  
Meadowdale Ext.2  
GERMISTON 1401  
P O Box 9683  
EDENGLLEN 1613  
Tel (011) 392 0000  
Fax (011) 974 9402  
E-mail [info@ecasa.co.za](mailto:info@ecasa.co.za)

## **COURSE CONTENT**

M0 – M3

### **Apply health and safety to a work area - identify potential hazards,**

- procedures that apply to illness or injury in the work area
- limit damage to persons or property in the case of an emergency

### **Identify, inspect, use, maintain and care for engineering hand tools**

#### **-identify and select engineering hand tools**

- use of engineering hand tools
- inspect engineering hand tools for serviceability
- maintenance and care of engineering hand tools

### **Install electrical wire ways**

- pvc conduit
  - bosal conduit
  - pvc trunking
  - cable trays,

- flexible conduit

### **Install, join and terminate LV cables and conductors**

- armoured cables
- flexible cables
- twin & earth
- surfix

**Install, maintain or replace LV db's, protective devices and components (installation wiring)** three phase and single phase distribution boards, lighting circuits, socket outlets, kilowatt hour meter, load balancing, stove switches)

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## **M4 – M6**

### **LOW VOLTAGE TRANSFORMERS -plan to install low voltage transformers**

- prepare to install low voltage transformers
- install low voltage transformers
- complete the installation of low voltage transformers
- electrical supply systems
- CT's and PT's
- estimated load of an installation

### **INSTALL AND COMMISSION AC MACHINES AND CONTROL GEARS**

#### **-direct online**

- single phase and three phase F/R
- rock hoist
- automatic star/delta
- circuit design
- starter fault finding
- relays panel wiring

### **TESTING, INSPECTION**

- three phase and single phase motor testing
- installation testing and inspection

LIST OF TOOLS NEEDED FOR TRAINING

MEASURING TAPE

HACKSAW

BALL PEN HAMMER

SET OF FLAT SCREWDRIVERS

SET OF STAR SCREWDRIVER

TUBE SPANNER (10MM)

SIDE CUTTER

PLIERS

LONG NOSE PLIERS

WIRE STRIPPER

PUMP PLIERS

Scriber (Sharp point to mark lines on steel)

ENGINEERING SQUARE

CRIMPER

STEEL RULER

HALFMOON FILES 2<sup>nd</sup> CUT/SMOOTH

CENTER PUNCH

250MM SHIFTING SPANNERS

RING/FLAT SPANNER SET

ALLEN KEY

**MEASURING INSTRUMENTS:**

MULTI METER

INSULATION TESTER

EARTHLEAKAGE TEST

**STATIONERY**

A4 Counter book

Coloured Pens (Red; Blue; Green; Yellow; Black)

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<b>TRAINING COST COURSE</b>	<b>DURATION</b>	<b>MEMBER</b>	<b>NON-MEMBER</b>
MO TO M3	4 WEEKS	R 17 480	R18 850
M4 TO M6	4 WEEKS	R 17 480	R18 850
EVENING CLASSES (M0 – M6)	8 WEEKS	R 17 480	R18 850
WEEKEND CLASS (M0- M6)	12 WEEKENDS	R 17 480	R18 850
ELCONOP 2 TRAINING	4 WEEKS	R 17 480	R18 850
ELCONOP 3 TRAINING	4 WEEKS	R 17 480	R18 850
ELCONOP 2 EVALUATION	2 DAYS	R4980	R6360
ELCONOP 3 EVALUATION	2 DAYS	R4980	R6360
TRADE TEST A	2 DAYS	R5 120	R6 520
TRADE TEST B & C	2 DAYS	R6 240	R 7 620
ARPL EVALUATION	1 DAY	R990	R1180
SPT/IE EVALUATION	1 DAY	R990	R1180
TRADE TEST PREP	PER DAY	R990	R1180
ELECTRIC FENCE	3 DAYS	R4350	R5810
OC: SOLAR PV SERVICE TECHNICIAN	3YRS	R44720	R51600
HIGHER CERTIFICATE: SOLAR PV STANDALONE SERVICE TECHNICIAN	1 YEAR	R17290	R19950
SOLAR PV STANDALONE SYSTEM MOUNTER	6 MONTHS	R10970	R12600
NATIONAL CERTIFICATE: SOLAR PV STANDALONE SYSTEM INSTALLER	2 YEARS	R27430	R31650
Three phase and single phase unit standards	1 day	6500	7500

**THE ABOVE AMOUNTS ARE FOR TRAINING ASSESSMENTS/TRADE TESTS DONE IN THE JHB TRAINING CENTRE. THESE AMOUNTS ARE APPLICABLE FROM 01 JULY 2025 to 30 JUNE 2026**

## TRADE TEST REQUIREMENTS

Dear Sir/Madam

When applying for an Apprenticeship/Trade Test for Electrician (Construction), the minimum requirements are as follows:

**THE APPLICANT MUST HAVE:**

1. N2 Electrical Certificate with relevant four subjects **OR**
2. Relevant Electrical Engineering NCV at NQF Level 3 with all related 7 subjects **OR**
3. Technical Grade 12 with Maths; Science and 2 related trade theory subject **OR**
4. Grade 11 with Maths, Science and related trade subject

The test will be undertaken at the ECA (SA) Meadowdale Ext 2, Germiston or any CETA accredited Trade Test Centre for the Trade Electrician Construction. All communications in respect of the Trade Test must be directed to the above address

Kindly attached the following documents with the application form:

1. 3 x original certified copies of your Identity Documents
2. A certified copy of your qualification as mentioned above.
3. Successfully completed logbook with all **(knowledge, practical and workplace modules)** at an accredited SDP

## ARPL ADMISSION REQUIREMENTS

All candidates seeking access to a Trade Test (electrician construction)/External Integrated Summative Assessment (EISA) through Recognition of Prior Learning must have:

1. Minimum three years relevant verified work experience
2. Minimum age of 19 years
3. ARPL assessment results (from Accredited Training Centre)

The test will be undertaken at the ECA (SA) Meadowdale Ext 2, Germiston or any CETA accredited Trade Test Centre for the Trade Electrician Construction. All Certificates will be controlled by this Board at the above address. All communications in respect of the Trade Test must be directed to the above address

Kindly attached the following documents with the application form:

1. 3x original certified copies of your Identity Documents
2. A letter of experience from the employer on a company letterhead stating the following: Years of relevant experience with starting date of employment to the current date of employment and position. Your daily duties or key responsibilities

(Note: incase where the candidate cannot get the reference letter from the employer an affidavit may be use)

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<b>TRAINING SCHEDULE JULY - DECEMBER 2024 HIGHVELD REGION COURSE NAME</b>	<b>FROM</b>	<b>TO</b>	<b>DURATION</b>
MODULE 0-3 & ELCONOP 2 MODULE 4-6 & ELCONOP 3	07-07-2025	01-08-2025	4 Weeks Mon-Fri 08:00am-16:00pm
MODULE 0-3 & ELCONOP 2 MODULE 4-6 & ELCONOP 3	04-08-2025	29-08-2025	4 Weeks Mon-Fri 08:00am-16:00pm
MODULE 0-3 & ELCONOP 2 MODULE 4-6 & ELCONOP 3	08-09-2025	03-10-2025	4 Weeks Mon-Fri 08:00am-16:00pm
MODULE 0-3 & ELCONOP 2 MODULE 4-6 & ELCONOP 3	06-10-2025	31-10-2025	4 Weeks Mon-Fri 08:00am-16:00pm
MODULE 0-3 (ELCONOP 2) MODULE 4-6 (ELCONOP 3)	03-11-2025	28-11-2025	4 Weeks Mon-Fri 08:00am-16:00pm

TRADE TEST A	<b>Dates given upon approval of application and full payment of the assessment.</b>	2 DAYS
<b>ELCONOP 2 &amp; 3 EVALUATION</b>		
ELCONOP 2 & 3 EVALUATION	<b>Dates given upon approval of application and full payment of the assessment.</b>	2 DAYS
ELCONOP 2 & 3 EVALUATION		2 DAYS
<b>ELECTRIC FENCE</b>	04-06 September 2025	3 DAYS
<b>EVENING CLASS</b>	06 Oct-26 Nov 2025	8 WEEKS 17:00-21:00
<b>WEEKEND CLASS</b>	12 July -04 Oct 2025	12 WEEKENDS *12 Saturdays *6 Sundays

## **BANK DETAILS**

**BANK: FNB**

**ACC HOLDER: ECA**

**ACC NUMBER :55030019357**

**BRANCH CODE :231433**

**BRANCH: FESTIVAL MALL**

**(Please use your name, surname or Invoice number as reference)**

