Renkalec Training Centre

Electrical Skills Training

Registered Name: Renkalec Training Centre. 2007/015190/23 (CC) Member, R van Rensburg

61 Cardiff Avenue
Clubview
Centurion
0157

Riaan 082 894 2302
Jean-mari 076 373 2090
www.renkalec.com
info@renkalec.com

Program 2026

1.Wireman's License (Registered Person)

Wireman's license registration is done with Department of Labour. A person must have certain qualifications to apply for a wireman's license. The qualifications required for an Installation Electrician (Yellow Card) are as follows:-

- Trade Test (Electrical)
- Installation Rules
- N3 (3 Electrical Subjects)
- Unit Standards (Unfortunately we do not provide this course.)

Renkalec Training Centre offers the program below to assist the learner to achieve these qualifications.

2. PLC Training (Not part of Yellow Card)

The following PLC courses will be offered by Renkalec Training Centre.

- PLC Systems (Introduction)
- PLC Systems (Intermediate)
- PLC Systems (Advanced)

Please contact our office for further enquiries and available dates.
Email: info@renkalec.com
Riaan: 0828942302
Jean-mari: 0763732090

Banking Details:

Renkalec Training Centre cc
ABSA
ACC No: 4067419654
Branch code: 632005
Please use your name and Surname as reference!!

Electrical Trade Test Preparation	
Description	This course prepares the learner for the National Trade Test Assessment as per QCTO requirements. The examination can be enrolled for at Department of Higher Education and Training (previously Department of Labour), INDLELA (Olifantsfontein) or at a Private Assessment Centre approved by QCTO. ▪ All course material is provided (Learner guide etc). ▪ All equipment and material for practicals are provided. ▪ Learner to provide own tools and PPE.
Course Outcomes	Learn to:- ▪ Install a conduit system and wire a domestic installation ▪ Wire various motor starters ▪ Perform testing on motors ▪ Do faultfinding on various motor starters
Course Duration	Full Time: 3 weeks, Monday to Thursday (9:00 – 15:00) ***Note:*** *A revision period of 4 days, prior to examination, is provided free of charge.*
Course fee	R 15300-00 (ARPL AND EXAM FEE INCLUDED)
	Full Time: ▪ 2026/02/23 – 2026/03/12 ▪ 2026/05/11 – 2026/05/28 ▪ 2026/06/22 – 2026/07/09 More dates to be added

Installation Rules	
Description	This course prepares the learner for the National Examination (Paper 1 & 2) at the FET College. All Legal aspects (OSHAct), Rules and Regulations (SANS10142-1) and relevant codes are covered. ▪ All course material is provided (SANS 10142-1 book) ▪ Reference material are provided (CD) ▪ Old exam papers and memorandums are provided ▪ EXCEL calculator sheets are provided.
Course Outcomes	Gain understanding of the:- ▪ OSHACT ▪ Electrical Installation Regulations (2009) ▪ Electrical Machinery Regulations (2011) ▪ SANS 10142-1 ▪ Other relevant SANS Codes ▪ Do faultfinding on various motor starters Learn to: ▪ Use SANS 10142-1 as an installation guide. ▪ Determine earth continuity conductor size. ▪ Use tables to determine current carrying capacity of cables. ▪ Calculate voltage drop of circuits. ▪ Determine minimum cable size to be used for a circuit. ▪ Determine maximum number of conductors in a conduit. ▪ Determine the Loop Impedance and Prospective short circuit current at the point of installation.
Course Duration	Full Time: 2 weeks, Monday to Thursday (9:00 – 15:00)
Course fee	R8000-00 all incl (Correspondence fee R4200 all incl Excl postage)
Course Dates	Full Time: ▪ 2026/02/09 – 2026/02/19 ▪ 2026/06/01 – 2026/06/11 More dates to be added

N3	
Description	This course covers the 3 subjects as required by Department of Labour for registration as a Wireman. The Subjects presented by Renkalec Training Centre are:- ▪ Electro-technology ▪ Mathematics ▪ Engineering Science ▪ Industrial Electronics ▪ Electrical Trade Theory Renkalec will enroll the learner at a FET college for the examination of these subjects. All books and study material will be provided.
Course Outcomes	Course outcomes are as per FET college subject outcomes.
Course Duration	We only offer N3 via correspondence **Correspondence: R2300 per subject all study material and exam enrollment included (excl) postage**
Course fee	R2300 per subject
Course Dates	Engineering Science Industrial Electronics Electro-technology Mathematics Electrical Trade Theory

FUNDAMENTALS OF PLCs	
Description	This course introduces the learner to PLC Systems and covers the following topics. ▪ Hardware Configuration ✓ Assembly and Installation of Hardware (Delta DVP and AS) ✓ Details of DVP CPU and add on Modules ▪ Software Installation ✓ Installing WPL Soft and ISP Soft Software ✓ Starting WPL Soft Software ▪ Basic Settings ▪ Programming ✓ Ladder programming ✓ Contact Logic ✓ Timers ✓ Counters ✓ Data and Index Registers ✓ Application Instructions ✓ Analog processing The course combines the theory and practical aspects of PLC systems and the practical's are performed by the student using the Delta WPL Software and DVP controller. All books, equipment and study material will be provided.
Course Outcomes	Gain understanding of the:- ▪ PLC Architecture ▪ PLC Hardware configuration and connections ▪ Software installation and architecture ▪ Programming in ladder and Instruction list ▪ Programming of timers and counters ▪ Programming Application instructions using registers. ▪ Downloading programs and commissioning systems
Course Duration	Full Time 4 Days, Monday - Thursday (9:00 – 15:00) Part Time 2 Weekends, Saturday (8:00 – 14:00) and Sunday (8:00 – 13:00)
Course fee	R 5500-00
Course Dates	Full Time: ▪ 2026/01/12 – 2026/01/15 ▪ 2026/03/30 – 2026/04/02 Part Time: ▪ 2026/01/17 – 2026/01/25

PLC: Intermediate (DELTA)	
Description	This course expands on the concepts covered in the Introduction course. ▪ Hardware Configuration ✓ Assembly and Installation of Hardware including add on modules ✓ Configuring communication ports ▪ Programming ✓ Further programming involving registers ✓ Programming of Onboard analog inputs ✓ Programming of analog modules ✓ Scaling of analog values The course combines theory and practical aspects of PLC systems. Practical's are performed by the student using the Delta systems All books, equipment and study material will be provided.
Course Duration	Full Time - 4 Days, Monday - Thursday (9:00 – 15:00) Part Time – 2 Weekends, Saturday (08:00-14:00) and Sunday (08:00-13:00)
Course fee	R 6500-00
Course Dates	Full Time: ▪ 2026/03/16 – 2026/03/19

PLC: Intermediate (SIEMENS)	
Description	This course expands on the concepts covered in the Introduction course. ▪ Hardware Configuration ✓ Assembly and Installation of Hardware including add on modules ✓ Configuring communication ports ▪ Programming ✓ Further programming involving registers ✓ Programming of Onboard analog inputs ✓ Programming of analog modules ✓ Scaling of analog values The course combines theory and practical aspects of PLC systems. Practical's are performed by the student using the Delta systems All books, equipment and study material will be provided.
Course Duration	Full Time - 4 Days, Monday - Thursday (9:00 – 15:00) Part Time – 2 Weekends, Saturday (08:00-14:00) and Sunday (08:00-13:00)
Course fee	R 9500-00
Course Dates	Full Time: ▪ 2026/01/19 – 2026/01/22 ▪ 2026/03/23 – 2026/03/26 More dates to be added

PLC: Advanced	
Description	This course expands on the concepts covered in the Intermediate course. ▪ Hardware Configuration (DVP and AS systems ✓ Assembly and Installation of Hardware ✓ Hardware configuration using HWConfig ▪ Software Installation ✓ Installing Software (ISPSoft, HWConfig and COMMGR) ✓ Starting Software ▪ Basic Settings of ISPSoft ▪ Configuring CPU, and modules using HWConfig ▪ Configuring communication using COMMGR ▪ Programming using IEC6133-3 principles. ✓ Project Creation ✓ Programming using Program Organizational Units ✓ Organizing the project into tasks ✓ Using variables(symbols) ✓ Using Function Blocks ✓ Working with Data Unit types The course combines the theory and practical aspects of PLC Advanced systems. The practical's are performed by the student using the Delta Systems. All books, equipment and study material will be provided.
Course Duration	Full Time 4 Days, Monday - Thursday (9:00 – 15:00)
Course fee	R 7500-00
Course Dates	Full Time ▪ Dates to be added soon

HMI's (Generic)	
Desc ription	This course expands on the concepts covered in the Programmable Logic Controllers (PLC's) - Intermediate course. It covers HMI screen design and programming as well as data logs and management. ▪ Hardware Configuration ✓ Connectivity ✓ Communication protocols ▪ Programming ✓ Design and configuration of screen elements ✓ Setup and management of data logs The course combines theory and practical aspects of HMI systems. Practical's are performed by the student using the Delta systems
Course Duration	Full Time - 4 Days, Monday - Thursday (9:00 – 15:00) Part Time – 2 Weekends, Saturday (08:00-14:00) and Sunday (08:00-13:00)
Course fee	R 7000-00
Course Dates	Full Time: ▪ Dates to be added soon