

SCHOOL OF IT INTERNATIONAL

PLC Programming Fundamentals Brochure

Live, 1-on-1 online training in Programmable Logic Controllers (PLCs) – architecture, programming, troubleshooting, and real-world industrial automation applications.

PLC Programming Fundamentals

School of IT International (Pty) Ltd

Somerset West, Cape Town, South Africa · schoolofit.co.za

PLC Programming Fundamentals

A comprehensive introduction to Programmable Logic Controllers (PLCs), covering their architecture, programming, troubleshooting, and real-world applications. Learn to write, debug, and optimize PLC programs for industrial automation. 1-on-1 online training with a real lecturer.

● Flexible hours

● Commence anytime

● 1-on-1 online with a real lecturer

Learning Objectives

Covered over 20 hours.

- 1 Introduction to PLCs (2h) — what is a PLC, history, hardware components, I/O modules
- 2 PLC hardware and wiring (3h) — power supply, wiring, sensors, actuators, safety considerations
- 3 PLC programming basics (5h) — ladder logic, logic gates and boolean algebra, hands-on practice
- 4 Advanced PLC programming (5h) — timers, counters, data handling, function blocks, troubleshooting
- 5 Industrial communication & HMI integration (3h) — Modbus, Profibus, Ethernet/IP, HMI configuration
- 6 Final project & assessment (2h) — real-world industrial automation project, final certification

Pricing

COURSE PRICE

R15,900

Full payment before commencement (no payment plan)

Course Duration & Format



Duration

20 hours — maximum completion time



Payment

Full payment only (no payment plan)



Mode

1-on-1 online, real lecturer, flexible scheduling



Certificate

Certificate of Completion included

Career Prospects

- ◆ PLC Programmer
- ◆ Automation Technician
- ◆ Industrial Controls Engineer
- ◆ Electrical Engineer (Automation)
- ◆ Manufacturing Systems Technician

Typical PLC-skilled salary (South Africa)

R280k – R550k / yr



Who should attend: Electrical engineers, automation professionals, technicians working in manufacturing, and anyone interested in industrial automation.

 Get job-ready skills — start your PLC Programming Fundamentals course today.

[Enrol Now →](#)

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