

## Perform PLC Programming Part 2 - PLC Applications

**Code:** PLC-2

**Duration:** 14 Hours

### Synopsis:

In today's process and manufacturing industries, programmable logic controller (PLC) is commonly being used. PLC is the heart of all automated control systems with a high degree of reliability capable of running a program without interruption in 24/7 and 365 environment. Thus, it is critical to learn the PLC applications besides knowing the simple PLC programmings.

This is an advanced PLC training course that enable participants to acquire knowledge and skills in performing PLC applications.

### Course Objective:

On completion of this course, participants will be able to perform programmable logic controlling on automated control system.

### Course Outline:

Knowledge:

- Advantages of PLC over the traditional control system
- Design and operational characteristics of a PLC system
- PLC information and communication techniques
- Function of various electrical protective devices
- Importance of sizing of cables to meet the safety requirement
- Programmable logic programming techniques

Abilities:

- Select appropriate control devices for the automated control system in accordance to the user requirements
- Configure, program, install and operate PLC in accordance to the user requirements
- Test and debug the controlled system

### For Whom:

Participants who have completed Perform PLC programming Part 1 or have prior PLC programming experience. They can be Line or Team Leaders, Technicians, Mechanics, Electricians, Supervisors and Engineers.

### Pre-requisite:

Participants must have prior basic PLC programming experience or completed Perform PLC programming Part 1.

### Entry Requirements:

Participants are assumed to:

- Have completed 'O' Level or equivalent; or
- Have the ability of:
  - Basic knowledge of the Singapore Workplace Safety and Health requirements;
  - Follow written and oral work instructions;
  - Listen, read and write English at a proficiency level equivalent to the Workplace Literacy and Numeracy (WPLN) level 5 / "N" Levels;
  - Manipulate numbers at a proficiency level equivalent to WPN level 5 / "N" Levels.

### Training Medium:

This course is conducted in English.

### Training Methodology:

This course is delivered through lectures, group activities and demonstration.

### Assessment Methodology:

Practical assessment is conducted at the end of the course.

### Certification:

A Certificate of Proficiency will be awarded to participants upon completing and passing the assessment. Otherwise, a Certificate of Participation will be issued to those who attained a minimum attendance of 75%.

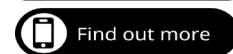
### Other Information:

Other progression courses that participants can consider to further enhance their career development journey:

- [Apply Control Circuits Diagnostic Skills](#)
- [Apply Autonomous Maintenance Techniques \(Classroom & Asynchronous\)](#)
- [Perform Adjustment and Measurement on Automation Devices](#)

### Contact Us:

For further information or registration, please contact +65 6483 2535 or email [emarketing@elitc.com](mailto:emarketing@elitc.com)



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