



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

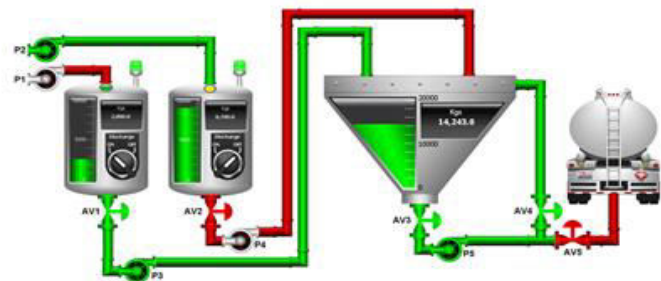
3 Times IIT Bombay Robo Competition Winner

**Industrial Certified
PLC Automation Developer**

**All India Council For Technical Skill
Development (AICTSD)**

In Association with

IITians Embedded Technosolution



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**Government of India (MSME) & ISO 9001-2015
Approved Organisation
Running by IIT Bombay & VJTI Alumni**

Embedded Technosolutions is a Professional & Corporate Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical based on industrial standards

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Till Now We Worked for the following Industries

- Crompton Greaves Ltd, Mumbai
- Laboratory Corporation of America, LabCorp, Burlington, NC USA
- Netfinity, India
- Continental Grain Corporation
- Brook Furniture Rental, Chicago, IL
- ITA, Bangalore
- RAK Ceramics, Mumbai
- Nvidia, Pune
- ARORA, Mumbai
- RED Cell, Mumbai
- Secutech, Mumbai

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B R A N D

PROMISE

**We Guarantee You that, You Can Develop Your Projects by
Your Own After This Training Program**



PLC Automation Developer

Module 1 - PLC Introduction

- Introduction to PLC hardware and role in automation
- Architectural Evolution of PLC
- Introduction to the field devices attached to PLC

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Module 2 - PLC Hardware Fundamentals

- PLC Fundamentals - (Block diagram of PLC's)
- Detail information about PLC components → Power supply, CPU, I/Os, Communication bus
- Various ranges available in PLC's

Module 3 - Hardware & Software Component

- Identifying Logix System hardware and software Components

Module 4 - Source & Sink Concepts

- Types of Inputs & outputs / Source Sink Concepts
- Wiring of the I/O devices

Module 5 - Timing & Scan Cycles

- Concept of flags
- Scan cycle execution

Module 6 - PLC Configuration

- Setting up PLC's/Connecting CPU, I/O modules, Rack, Backplane and Communication bus

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Module 7 - PLC Communication Interfaces

- Connecting a Computer to a Communications Network

Module 8 - PLC Software Settings

- Installing and to starting the programming terminals
- Creating & Modifying an RSLogix new project
- Transferring a Project File to a Logix5000 Controller

Module 9 - PLC Programming Logics

- Creating various Tasks
- Organizing Data
- Entering, Editing, & Verifying Ladder Logic
- Configuring Logix5000 Controllers to Share Data
- Configuring a Message
- Documenting & Searching for Project Components

Module 10 - PLC Programming

- Identifying Programming Strategies & Techniques
- Documenting & Searching Ladder Logic

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- Programming Basic Instructions
- Programming Timer & Counter Instructions
- Programming Program Control Instructions
- Programming Compare Instructions
- Programming Compute & Math Instructions
- Programming Move Instructions
- Programming with Advance Instruction Set
- Creating a Function Block Diagram
- Programming Logical Function Block Instructions
- Programming Timer & Counter Function Block Instructions
- Programming Analog Function Block Instructions
- Programming Timing Modes in a Function Block Instruction
- Programming & Monitoring an RMPS (Ramp/Soak) Function Block Instruction
- Controlling Program Flow Using Function Block Instructions

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	<u>Live Projects</u> :
	PLC Automation Based
1	Traffic Light System Designing
2	Water Level Control System Designing
3	Building Pump Automation Designing
4	Water Level Detection - Simple Logic1
5	Water Level Detection - Moderate Logic
6	Water Level Detection - Fully Controlled Logic
7	Emergency Trapping System Designing
8	Bottle Filling Machine Designing
9	Industrial Sequential Motor Control
10	Heavy Industrial Sequential Motor Control
11	Both Hand Safety Logic

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12	Burglar Alarm System
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