



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 9224301650

www.embeddedtechnosolutions.com



Industrial Certified PLC Automation

We Are India's one of the Leading Trainings &
Jobs Providing Organization



कौशल भारत - कुशल भारत

Government of India Registered & ISO

Certified Organization



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GOVERNMENT OF INDIA
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

Udyog Aadhaar

Type of Enterprise	Micro	Small	Medium
Manufacturing	A	B	C
Services	D	E	F
UAN	MH19E0006383		

Government of India (MSME)
Name of Enterprise : Embedded Technosolutions
Type of Organisation
 Proprietary
Postal Address
 Shop No.C/20,1st Floor ,Amrita Sadan, Near Hotel Dwarka, Nerul West, District - Mumbai City, State - Maharashtra, 400706
Email
 info@embeddedtechnosolutions.com
Majority Activity
 Services
District Industry Centre **UAN**
 Mumbai City MH19E0006383

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



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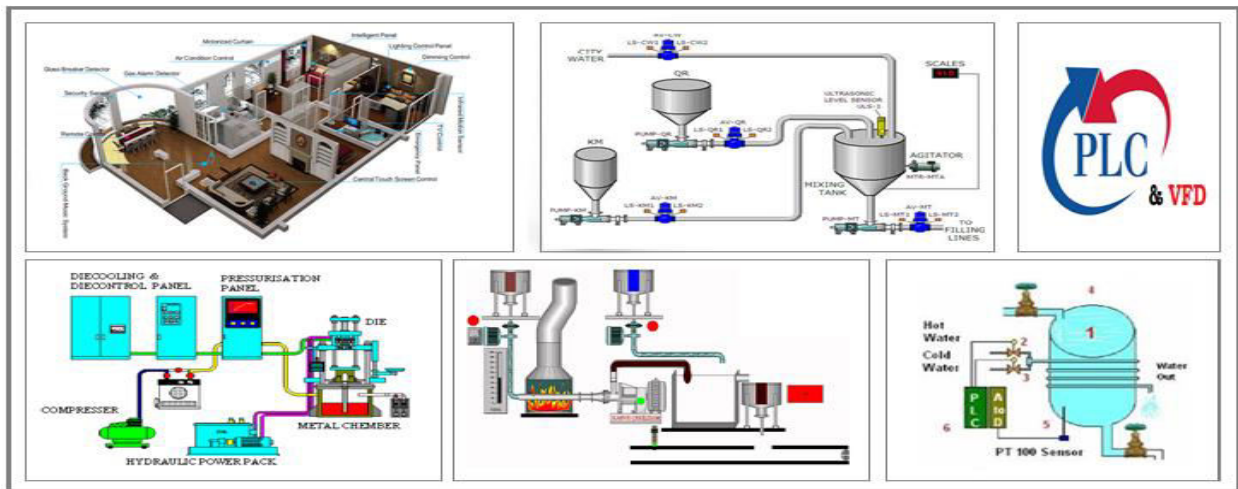
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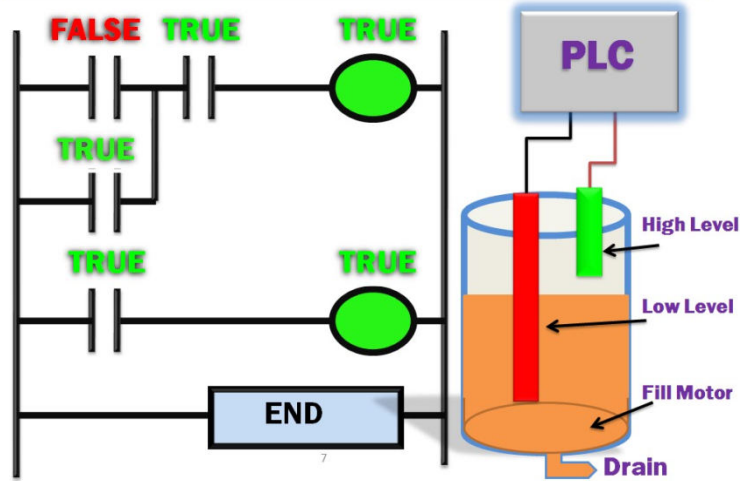
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How Does A PLC Work?





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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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PLC Programming & Development

Module 1 - PLC Introduction

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

Module 2 - PLC Hardware Fundamentals

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



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- 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

Module 7 - PLC Communication Interfaces

- Connecting a Computer to a Communications Network



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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
- Programming Basic Instructions



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- 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 Programming & Development 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



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9	Industrial Sequential Motor Control
10	Heavy Industrial Sequential Motor Control
11	Both Hand Safety Logic
12	Burglar Alarm System

SCADA - Automation & Simulation

Module 1 - SCADA Introduction

- Introduction
- Industrial Automation Basics
- Basic Knowledge
- Data & Communications

Module 2 - Various SCADA Options

- Types of SCADA & Different SCADA Products.



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- Project overview
- Project Management
- Running the Project

Module 3 - SCADA Animation

- Graphical Animation
- Web Buttons
- Slider Movement
- Visibility
- More Animations

Module 4 - SCADA Scripting

- Server-side Scripting
- Client-side Scripting
- Many side scripting

Module 4 - HTML & Database

- HTML Basics
- Database



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	<u>Live Projects</u> : SCADA Development Based
1	Practical Hands on Tag Development.
2	Practical Interfacing different sensors signal to SCADA systems.
3	Practical Interfacing different sensors to Real Time Trends/Alarms.
4	Data Management interfacing from SCADA to Excel
5	Practical Interfacing different sensors to Historical Trends / data retrieving.
6	Practical Interfacing of SCADA Systems to PLC Hardware to control Plant from remote Locations.



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HMI - Automation & Development

Module 1 - HMI Introduction

- HMI function
- Data handling with HMI
- Terminology
- History
- Command Line Interface

Module 2 - HMI Interfaces

- Interface Design
- Interface Types

Module 3 - HMI Terminology

- Terminology
- Configuration and interfacing with PLC and PC
- Communication standards, Ethernet, **RS485,RS232**



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Variable Frequency Drive (VFD)

Module 1 - VFD Introduction

- To operate motor using VFD Console switches
- To change parameter settings
- Selection of VFD for Application

Module 2 - VFD Configuration

- To change Ramp Down time [deceleration time]
- To change Ramp up time [acceleration time]
- To set output frequency limit [Maximum]
- To set output frequency limit [Minimum]
- Introduction of Modbus Communication of VFD with PLC

Module 3 - VFD Troubleshooting

- Troubleshooting of VFD

Module 4 - Projects based on VFD



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Placement Policy

- As we are working for industries for their product development, R&D ,Customization & Manufacturing we get direct recruitment related notification from that companies whenever there is the recruitment in the that companies.
- Also other companies in the market they also call us regarding recruitment process.

These entire JOB related notifications we exclusively provide to our students and they can apply in that companies directly. We upload the password protected job notifications on our website, students can access that job notifications from our website with password.