

**100% JOB
PLACEMENT**



SP Automation & Training
Center

ADVANCED DIPLOMA IN INDUSTRIAL AUTOMATION & CONTROL

----- Course Offered-----

Automation in Electronic & Electrical

Machine Automation

PLC Programming

HMI Designing

SCADA Development


Protocol Communication


Control Panel & Auto CAD Designing

Industry Connect

COURSE DURATION: 3 MONTHS

Please contact on below number
for more details

 +91 9325202457

 +91 7900048889



S P Automation, Flat No. 103, B Wing, Ocean Center, Tembhode Road, Near
Reliance Smart Palghar (West)

DIPLOMA IN INDUSTRIAL AUTOMATION & ELECTRICAL

❖ ELECTRONIC / INSTRUMENTATION TOOL CONCEPT

1. Basic Electricity, Single & Three Phase Supply, Cable & Wiring,
2. Power Supply SMPS
3. Relay information, Transistor information
4. Transformer
5. Protection and Overload Devices
6. Power and Control Circuit, Contactor, Timer, Counters
7. Drives Communication with PLC & SCADA System
8. Types of sensors and Transmitter
9. Flow , Level, Pressure, Temperature Measurement
10. Electro-Pneumatic and Hydraulic

❖ PROGRAMMABLE LOGIC CONTROLLER

- 1 Introduction, Architecture, PLC Series & Types
- 2 PLC Programming and Advanced PLC instruction
- 3 Timer and Counter Programming
- 4 Networking and Communication with SCADA & HMI

❖ SCADA & HMI

- 1 Introduction, Application of SCADA & HMI
- 2 Creating Screens with Data Entry, Size, Movement, Visibility
- 3 Navigation Between the Screen Using Developing Functions
- 4 Creating & Accessing Real Time & Historical Trend, Alarm, Events
- 5 Writing Logic through Script & Communication with PLC and other Software

❖ PROJECT DESIGN CONCEPT

- 1 Hardware Selection
- 2 Analog / Digital Input & Output Selection
- 3 Relay Logic, Contactor Logic
- 4 Power and Control Connection
- 5 Panel designing, Wiring Diagram Concept
- 6 Auto CAD Designing

FINAL PROJECT WORK

(Student have to Complete 3 Project)

Documentation – Project Filling, MOM, SOP

----- Certificate Will be Awarded -----