

# WIZTECH AUTOMATION SOLUTIONS (P) LTD.,

{An ISO 9001:2000 certified company}

#102, 'W' Block, 2<sup>nd</sup> and 3<sup>rd</sup> floor, 2<sup>nd</sup> Avenue, Anna nagar Roundtana, Chennai-40

E-mail: [wiztechenquiry@gmail.com](mailto:wiztechenquiry@gmail.com) web: [www.wiztechautomationsolutions.com](http://www.wiztechautomationsolutions.com)

## PLC Automation Training Syllabus:

### INTRODUCTION OF PLC:

- ❖ Industrial automation
- ❖ Basic block diagram of PLC
- ❖ Electrical Relay logical diagram
- ❖ Relay control panel
- ❖ Application of relay logic gates

### KEYENCE PLC:

- ❖ Introduction
- ❖ Logic Gates
- ❖ Power Ladder Diagram
- ❖ Creating Real Time Project
- ❖ On / Off Delay Timers
- ❖ UP / Down Counters
- ❖ Working With Industrial Projects

### ALLEN BRADLEY (AB) PLC:

- ❖ Introduction of Processors Modules
- ❖ Reload programs
- ❖ Input/output fault finding
- ❖ Implement changes to the program.
- ❖ Monitor program to determine
- ❖ Ethernet Communication
- ❖ Working With Industrial Project

### ASEA BROWN BOVERI (ABB) PLC:

- ❖ Introduction of Processors Modules
- ❖ Digital and analog input/output modules
- ❖ Reload programs
- ❖ Input/output fault finding
- ❖ Implement changes to the program.
- ❖ Monitor program to determine
- ❖ Function block diagram
- ❖ Control loop tuning
- ❖ Working With Industrial Projects

### OMRON PLC:

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Input/output fault finding
- ❖ Implement changes to the program.
- ❖ Program control instructions
- ❖ Working With Industrial Projects

### SIMENS PLC:

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Input/output fault finding

- ❖ Implement changes to the program.
- ❖ Introduction to communication
- ❖ Connect online and monitor programs to determine plant problems
- ❖ Working With Industrial Projects

### **SCHNIDER PLC:**

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Input/output fault finding
- ❖ Implement changes to the program.
- ❖ Introduction to communication
- ❖ Working With Industrial Projects

### **MESSUNG PLC:**

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Input/output fault finding
- ❖ Implement changes to the program.
- ❖ Introduction to communication
- ❖ Connect online and monitor programs to determine plant problems
- ❖ Working With Industrial Projects

### **GE-FAUNC PLC:**

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Program control , logical control operations
- ❖ Input/output fault finding
- ❖ Implement changes to the program.
- ❖ Introduction to communication
- ❖ Connect online and monitor programs to determine plant problems
- ❖ Working With Industrial

### **DELTA PLC:**

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Program control
- ❖ Input/output fault finding
- ❖ Implement changes to the program
- ❖ Working With Industrial Projects

### **mitsubishi PLC:**

- ❖ Introduction of Processors Modules
- ❖ Input/output modules
- ❖ Reload program
- ❖ Program control
- ❖ Input/output fault finding
- ❖ Implement changes to the program
- ❖ Working With Industrial Projects

### **DRIVES:**

- ❖ Introduction of drives Modules
- ❖ DC motor speed control

- ❖ Control panel wiring
- ❖ Introduction to Communication
- ❖ Volts, Amps, Frequency Mode operation

### **TYPES OF DRIVES:**

- ❖ ALLEN BRADLEY (AB)
- ❖ ASEA BROWN BOVERI (ABB)
- ❖ MITSUBISHI

### **HUMAN MACHINE INTERFACE (HMI):**

- ❖ Introduction of HMI
- ❖ Basic simulation program
- ❖ Communication with PLC to HMI
- ❖ Working With Industrial Project

### **TYPES OF HMI:**

- ❖ ALLEN BRADLEY (AB)
- ❖ DELTA

### **SCADA:**

- ❖ Introduction of scada
- ❖ Standard graphics objects
- ❖ Buttons, sliders, pipe connections, civil & mechanical parts
- ❖ Display and application windows
- ❖ Creating and editing tags
- ❖ Animation configuration
- ❖ Text and text control
- ❖ Wizards
- ❖ Graphs, bar charts
- ❖ Reporting achieved data can be reported to paper
- ❖ Working With Industrial Project

### **TYPES OF SCADA:**

- ❖ Intellution FIX 32
- ❖ Ev Designer
- ❖ Wonder ware intouch

### **HONEY WELL:**

- ❖ Introduction of PLC and DCS
- ❖ Digital and analog input/output modules
- ❖ Reload programs
- ❖ Input/output fault finding
- ❖ Standard graphics objects
- ❖ Button, sliders, boiler objects
- ❖ Display and application windows
- ❖ Creating and editing with PLC to HMI
- ❖ Animations and Bar charts
- ❖ To develop an understanding of drives and data transfer between PLC's

### **TYPES OF HONEY WELL:**

- ❖ Honey well PLC
- ❖ Honey well DCS

**Duration: 8 weeks**