

Title: Training on Siemens TIA Portal S7-1200 PLC and HMI

(We shape your career)

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Course fee

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Class #	Course title	Lecture details
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01	Course overview	Overview <ul style="list-style-type: none"> ○ What does it mean Industrial automation? ○ What is sensor? ○ What is PLC? ○ What is the fourth-generation industry? ○ Basic concept of electrical engineering (Current and voltage divider rule, ohms law, series and parallel ckt, single line diagram)
02	Proximity sensor (inductive, capacitive, photoelectric, magnetic, hall)	Proximity sensor <ul style="list-style-type: none"> ○ What is proximity sensor? ○ Types of proximity sensors ○ How to choose a right proximity sensor ○ Industrial Applications ○ How to connection ○ Practical Project
03	Level sensor (Capacitive, ultrasonic)	Level sensor <ul style="list-style-type: none"> ○ Working principle of the level sensor ○ How to connect level sensor? ○ Capacitive Vs Ultrasonic level sensor ○ How to install level sensor? ○ Application in the industry ○ Practical experiment
04	PIR and Presence sensor (PIR, Presence and photocell)	PIR sensor <ul style="list-style-type: none"> ○ Working principle of a PIR sensor ○ PIR Vs Presence sensor ○ PIR Vs Photocell ○ Connection and application ○ Practical project
05	Introduction to S7-1200 PLC	Introduction <ul style="list-style-type: none"> ○ What is PLC? ○ Functional block diagram of PLC. ○ How PLC is work? ○ What is the ladder logic diagram? ○ Why PLC is used? ○ What is the application of PLC?
06	Ladder Logic Concept & PLC Wiring Procedure	Ladder Logic <ul style="list-style-type: none"> ○ What is the ladder logic of PLC? ○ Ladder logic diagram of PLC. ○ Power connection & I/O connection diagram. ○ Practical of connection diagram.
07-15	Instructions and programming in TIA portal	
16-19	Projects	
20	Exam (Theory and practical)	