

PLC Courses Contents

<p>➤ <u>Brief Description</u></p> <ul style="list-style-type: none"> ✚ Be able to recognize S7 hardware and be able to diagnose faults. ✚ Be able to design optimum S7 hardware selection for a specific project ✚ Be able to develop programming in Ladder/FBD/CFC for S7 products. ✚ Be able to design, Develop and trouble shoot S7 hardware's including Logo, 200, 1200, 1500 and 300/400 series PLCs ✚ Be able to acquire and calibrate data from voltage sensor, Current Sensor and PT100 Temperature Sensor <p>➤ <u>Training Kits Used</u></p> <ul style="list-style-type: none"> ✚ S7-300 & S7-400 PLCs with Analog Modules ✚ S7-226 PLC with analog Modules ✚ S7-1200 and S7-1500 PLCs ✚ S7- LOGO with analog modules. <p>➤ <u>Introduction to PLCs</u></p> <ul style="list-style-type: none"> ✚ Brand of PLCs ✚ Types of PLCs ✚ PLC Architecture ✚ Components of PLC based control Sys. ✚ PLCs and its Power Supplies ✚ Memory Area Allocations of different PLCs i.e Siemens, AB, Omron, Fatek ✚ I/O Addressing of PLCs 	<ul style="list-style-type: none"> ✚ I/O Addressing of Modules ✚ Scan Time of PLC ✚ Factors Influencing Scan Time <p>➤ <u>S7-200 PLC</u></p> <ul style="list-style-type: none"> ✚ Hardware ✚ Programming ✚ Wiring ✚ Application ✚ Exercises: <p>➤ Practice on S7-226 with analog modules</p> <p>➤ <u>S7-300 and S7-400 PLCs</u></p> <ul style="list-style-type: none"> ✚ Hardware: CPU, Power Supply, DI Modules, DO Modules, DI/DO modules, AI Modules, AO Modules, AI/AO Modules, Communication Modules, Function Modules and all other modules. ✚ Simatic Manager 5.5 and TIA portal v13 softwares: ✚ Detail working Environment. ✚ How to create a Project ✚ Configure Hardware ✚ Write Program ✚ Simulate the program <p>➤ Programming Simulation on Simatic PLCSIM</p> <ul style="list-style-type: none"> ✚ Contacts and coils ✚ Timers 	<ul style="list-style-type: none"> ✚ Counters ✚ Comparator operations ✚ Math Functions ✚ Move operations ✚ Conversion Operations ✚ Program control operations ✚ Word logic Operations ✚ Shift and Rotate ✚ Functions (FCs) ✚ Functions Blocks (FBs) ✚ System Function Blocks (SFBs) <p>➤ Communication Protocols Of S7-300</p> <p>➤ Configure Multiple Racks for large system</p> <p>➤ Configure RTU connected to PLC through Profibus.</p> <p>➤ How to design a Control system based on S7-300.</p> <p>➤ How to assemble power Supply, CPU, and I/O modules.</p> <p>➤ Wiring</p> <p>➤ Trouble shooting</p> <p>➤ Practice on S7-300-cpu-313c 2DP with analog modules</p> <p>➤ <u>S7-1200 and S7-1500 PLCs</u></p> <ul style="list-style-type: none"> ✚ Hardware: CPU, DI Modules, DO Modules, DI/DO modules, AI 	<ul style="list-style-type: none"> Modules, AO Modules, AI/AO Modules, Communication Modules, ✚ Signal Board (SB) ✚ Signal Module (SM) <p>➤ TIA (Totally Integrated Automation) Portal software.</p> <ul style="list-style-type: none"> ✚ Detail working Environment. ✚ How to create a Project ✚ Configure Hardware ✚ Write Program ✚ Simulate the program <p>➤ Communication Of S7-1200 with PC</p> <p>➤ How to design a Control system based S7-1200 PLCs.</p> <p>➤ How to assemble power Supply, CPU, and I/O modules.</p> <p>➤ Wiring</p> <p>➤ Trouble shooting</p> <p>➤ Practice on S-7-1214</p> <hr/> <p>➤ <u>Exercises:</u></p> <p>➤ More than 30 Practical Automation tasks on Simatic Manager 5.5 and TIA Portal v13 and S7 MicroWin.</p> <hr/> <p>For more detail contact us:</p> <p style="text-align: center;">Cellular # 0333-9172465</p> <p style="text-align: center;">Or visit us at</p> <p style="text-align: center;">www.AdvSolution.net</p>
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