





ourse Name : <u>PLC Programming with HMI</u>
ourse Duration : 40 Hrs.
ourse Overview
 Intended audience This course is suited for Automation, Instrumentation and
Mechatronics Engineers.
 Prerequisites <u>Education</u>: Diploma or B.E/B.Tech 2nd year completed in any one of
following Streams.
Electrical, Electronics, Instrumentation, Mechanical,
Mechatronics Engineering.
 <u>Software</u>: There are no prerequisites for this class.
 Course objectives After successfully completing this course, you should be able to: Understand Automation & System Overview, Engineering Software TIA Portal. Understand Different Logic Gates, Timers, Counters, FC's, OB's, DB's and PLC Tags. Write Ladder program for various applications
 Communicate between PLC and HMI
 Course Contents Automation Overview System Overview STEP 7 Range of Products Digital Fundamentals Engineering Software TIA Portal Hands on practice on TIA Portal Devices & Networks PLC Tags Program Blocks and Program Editor Binary & Digital Operations Timers & Counters Ladder program for various applications
 Data Blocks, Functions and Function Blocks

- Organization Blocks
- Troubleshooting
- Introduction to HMI
- Communicate between PLC and HMI

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