



CI No.: U80900RJ2019PTC063908.

AUTOMATION | simplified

Certificate of Completion

30 Days Industrial Training Program: Basic Automation Training (B.A.T.)

During the **MERC's Industrial Automation Training**, administered by the undersigned trainer, the student was able to proficiently:

- Developed the understanding of **PLC (Programmable Logic Controller) & SCADA (Supervisory Control & Data Acquisition)** system and become familiar with their brief history & system parts.
- Analyze the system parts & power supplies of a PLC hardware including the block diagram of a typical PLC, PLC processor module & memory organization
- Discover the underlying principles of a PLC software such as the programming devices, number systems, memory components, data structures, operating modes and limitations
- Understand the PLC systems design, Ladder programming languages, installation and maintenance and be able to review troubleshooting techniques used in the system.
- Know the concepts & common elements of Human machine Interface communication with Programmable logic controller (PLC).
- Heighten awareness on the principles of data communications & Object Linking and Embedding in Process Control (OPC) and be able to recognize their importance in HMI & SCADA also.
- Learn the concept of viewing and editing parameters, Braking, Bypassing, and Line Consideration, User / Operator Interface of adjustable frequency Drive.
- Understand the basic control wiring of frequency drives with PLC.
- Learn the basic concept of control panel designing of programmable logic control.

Manvendra Singh Jhala

Student's Name

Techno India NJR Institute of Technology, Udaipur

College Name

21st Jan, 2020 to 19th Feb , 2020

Training Date

Techno India NJR Institute of Technology, Udaipur

Location

MIT-TR-19-AJM-184

Reference ID

Director