

**Automation Engineers AB Pvt Ltd, NOIDA**

**Crash-Course on Industrial Internet of Things-Industry 4.0 (IIoT)**

Course Syllabus:

Duration: 20 Hours

**Topics:**

**1. General introduction to Industry 4.0**

- Introduction to Industrial revolutions – 1.0, 2.0, 3.0 & 4.0
- Introduction to general concepts of Cloud and IOT Gateways
- Various Siemens solutions to cloud connectivity
- Siemens PLC's and SCADA Portfolio with Information Regarding Licensing of Software with TIA
- Brief discussions on communication protocols for connecting devices
  - Profinet
  - Demonstration of communication b/w PLC & Connectivity hardware

**2. Identification of Data points and configuring Data availability on PLC and SIMATIC IoT2040**

- TIA portal programming interface and hands-on
  - Configuring PLCs
  - FC, FB, DB concepts
  - Implementing basic programming via tasks / mechatronic system
  - Setting up Data points
- Setting up the SIMATIC / MindConnect IOT 2040
- Establish internet connection on device – wireless / LAN

**3. Connection with Automation system and Data visualization**

- Connectivity with Automation System
- Setting up MindSphere account and aspects
- Data Visualization on MindSphere

AN ISO 9001:2015 CERTIFIED