

Digitalization Basic (DIGI-I4.0B)

Objectives

Understanding the concept of industry 4.0 & explore siemens offerings to make organization I4.0 ready.

Target Group

Engineers, Maintenance and Training Managers, Decision Makers, Promoters & Developers.

Content

History of industrial revolutions

- Introduction to Industrial revolutions – 1.0, 2.0, 3.0 & 4.0
- IIoT Emerging force in every industry
- Rise of cyber physical systems
- Scope of IoT in manufacturing Industries
- Evolution and its impact
- Communication protocols for connecting devices
- S7 communication
- OPC UA
- Modbus TCP/IP
- Profinet

TIA portal programming interface and hands-on

- Siemens PLC's and SCADA Portfolio with Information Regarding Licensing of Software with TIA Portal V 16.X
- Configuring PLCs
- FC, FB, DB concepts
- Implementing basic programming via tasks
- Setting up Data points

Introduction to Cloud technology and overview of deployment models

- Siemens offering in cloud technology - MindSphere open IoT cloud platform long with details licensing, hardware & software solution.
- Siemens Use case & its impact on customer business.
- Overview of data analytics (DA) and impact on upcoming trends

Setting up the IOT 2040 & Hands-on

- Introduction to hardware
- Commissioning of the IOT2040
- Changing the IP-Addresses
- Establish internet connection on device – wireless / LAN

Prerequisites

- TIA portal & STEP 7
- Programming a PLC with the use of basic instructions
- Various communication protocols

Type

Face-to-face training

Duration

3 days

Language

en

Fee

30,000 INR

18% GST additional on Course fees.