

## Digitalization Basic (DIGI-OL-I4.0B)

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### Objectives

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

### Target Group

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

### Content

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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

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- TIA portal & STEP 7

- Programming a PLC with the use of basic instructions

- Various communication protocols

### Type

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Online-Training

### Duration

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3 days

### Language

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### Fee

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30,000 INR

19500 INR 18% GST additional on Course fees.