

## Introduction to Industry 4.0 (DIGI-IN4.0)

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### Content

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General introduction to Industry 4.0

- a. Introduction to Industrial revolutions – 1.0, 2.0, 3.0 & 4.0
  - b. Introduction to general concepts of Cloud and IOT Gateways
  - c. Various Siemens solutions to cloud connectivity
  - d. Siemens PLC's and SCADA Portfolio with Information Regarding Licensing of Software with TIA
  - e. Brief discussions on communication protocols for connecting devices
    - i. Profinet
    - ii. Demonstration of communication b/w PLC & Connectivity hardware
- Identification of Data points and configuring Data availability on PLC and SIMATIC IoT2040
- a. TIA portal programming interface and hands-on
    - i. Configuring PLCs, ii. FC, FB, DB concepts
    - iii. Implementing basic programming via tasks / mechatronic system
    - iv. Setting up Data points
  - b. Setting up the SIMATIC / MindConnect IOT 2040
  - c. Establish internet connection on device – wireless / LAN
- Connection with Automation system and Data visualization
- a. Connectivity with Automation System
  - b. Setting up MindSphere account and aspects
  - c. Data Visualization on MindSphere

### Prerequisites

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Participants should have the knowledge

- of programming a PLC with the use of basic instructions
- of various communication protocols

### Type

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Face-to-face training

### Duration

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3 days

### Language

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en

### Fee

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18,000 INR