

# Digitalization for Process Industries

## Introduction to Industry 4.0

### Learn the fundamentals of Industry 4.0 and discover the value of your operational data

#### Description

Industry 4.0 technologies & solutions are transforming businesses and in order to keep up to date, it is essential to understand Industry 4.0. The course gives you an introduction into the Digital Enterprise as your path toward Industry 4.0, a basic understanding of the solutions provided in the value chain and an overview of the cloud solution in terms of MindSphere, so that you will be able to assess them after completing the course. You gain not only a theoretical overview but also further insights into the possibilities of Digital Enterprise through practical demonstrations. From Siemens as the manufacturer, learn what all comprises a Digital enterprise and how can Siemens help you achieve it.

#### Objectives

This training enables you to:

- Understand the buzzwords surrounding Industry 4.0
- Understand Industrial Internet of Things and benefits of switching to internet enabled systems
- Understand elements required to initiate Digitalization in your process plant
- Perform data acquisition from automation systems via various connectivity protocols to Cloud tech.
- Perform data modeling, visualization & configure notification service on MindSphere

#### Content

- Introduction to Industry 4.0 - buzzwords
- Introduction to Digital Enterprise for Discrete and Process Industries
- Focus on Process Industries – From Integrated engineering to Integrated operations
- Overview:
  - COMOS
  - SIMIT
  - XHQ
- Communications and security
- Cloud & Analytics based services
- Introduction to IoT & Industrial Internet of Things (IIoT)
  - Cloud computing technology - Overview
  - Cloud connectivity devices
  - Siemens Gateways like SIMATIC IoT2040 / MindConnect IoT2040
  - Cloud connectivity protocols like S7, OPC UA, ModBUS TCP/IP
  - IoT system onboarding activity
  - Introduction to MindSphere & components
  - Data structure modeling using Asset manager
  - Data Visualization using Fleet manager
  - Configuring email notification service for user defined rules

<https://www.sitrain-learning.siemens.com/IN/en/index.do>

Scan me



# Digitalization for Process Industries

## Introduction to Industry 4.0

### Target groups

- Decision makers, planners
- System integrators, Configuration engineers, Commissioning engineers

### Prerequisites

- Implement ladder logic programming in sample projects or tasks
- Basic information on functionalities of SIMATIC controller profiles
- Basic information on communication protocols like S7, OPC UA & ModBUS

### Duration

- 5 days

### Fees

- 8000/- per day per participant

© 2019 Siemens Ltd.

Scan me



<https://www.sitrain-learning.siemens.com/IN/en/index.do>