

## Digitalization Auto Engineering (DIGI-AUTOE)

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### Short Description

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Totally Integrated Automation in the Digital Enterprise - Automatic Execution of Engineering Tasks

### Objectives

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Digital Enterprise, your path to Industry 4.0 - discover your possibilities. Today's technologies are so complex that, in order to keep up to date, it is almost essential for the training to be performed on the software and the associated training devices.

The target group of these course is comprised of configuration engineers, project planners and programmers working for medium-size and large-scale industrial companies, who deal with the automatic execution of engineering tasks. This includes the generation of PLC programs and HMI visualizations.

This course gives you an overview of Totally Integrated Automation in the Digital Enterprise as your way towards Industry 4.0 and an overview about the interaction of the various software packages, so that you will be able to assess them after completing the course.

The objective of the course is to achieve higher efficiency in the creation of PLC code and HMI visualizations for modular machines. This is achieved by:

The automatic execution of repetitive processes for identical functions

A code that can be generated more quickly and more reliably for the same processes Reducing the engineering effort demanded by user interfaces, while standardizing the visualization across the plant automatically generating and creating the visualizations, based on the program code of the controller and of corresponding visualization

Objects within the framework of system-wide library concepts

### Target Group

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Decision makers, Planners, Programmer, Project Engineer, System Integrators, Configuration Engineers, Commissioning Engineers.

### Content

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- Digitalization- Industry 4.0
- Automatic execution of engineering tasks
- Standardization as the basis for digitalization
- Modularization of the machine
- Standardization and storage with the aid of TIA Portal Library
- Practical insight into standardized programming
- Standards in automation
- TIA Portal openness and types of automated code generation
- Hardware and software generation and data exchange with ECAD
- Adaptation of project generator

### Prerequisites

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Basic Knowledge of Automation Technology, Basic knowledge of SIMATIC TIA Portal STEP 7 corresponding to TIA-Portal with S7-1500 and HMI and TIA Portal WinCC Advanced corresponding to TIA-WCCM Course and practical experience in the application of knowledge.

### Note

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Software to be used:

1. Laptops/ PC systems installed with TIA Portal V14 SP1 including softwares with STEP 7 V14 SP1, WinCC Comfort/Advanced V14 SP1, TIA Openness, TIA SiVarc.

### Type

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Face-to-face training

### Duration

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5 days

### Language

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en

### Fee

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40,000 INR

