

Siemens Industry 4.0 Solution Training

Digital Prototype and Virtual Commissioning Based on PLM Software

Maybe you have even visited Siemens SEWC digital factory in Chengdu, amazed at the perfect fit between virtuality and reality; Maybe you have been confused with frequent reworks of physical prototype, resulting in expensive costs of materials and manpower, even delay the time from design to delivery. Siemens PLM NX MCD, Mechatronic Concept Designer, is right choice for virtual commissioning with digital prototype. It is come true to fast evaluate the problems in virtual environment and reduce obviously the physical prototype.

This course will introduce Siemens PLM NX MCD (Mechatronic Cnocept Designer) and virtual prototype commissioning using Hardware-in-Loop. Through the case study, learn how to define mechanism motions in MCD, how to output the kinematic sequences to PLC_Open, how to create the PLC/CNC connections and map the signals, virtual commissioning, and modification of models and PLC/CNC programs. This course is aimed at shortening the product design period and reducing the design costs.

Course Content:

- MCD Overview : Functionalities and Value
- MCD Kinematic Model
- Data Interworking between MCD and PLC/CNC
- Case Practice



Course Registration Information

Course Code : F4001

Course Name : Digital Prototype and Virtual Commissioning

Course Length : 2 Days

Course Price : 3600 RMB (incl. VAT)

Target Group : Design Personnel , Automation Personnel , Commissioning Personnel

Requisite Knowledge : CAD basics , PLC basics

Training Time : 2017.03.02 - 03.03; 2017.09.28 - 09.29

Training Place : Shanghai

For more details

Please visit <http://www.siemens.com.cn/sitrain>

Contact our training consultants in your region

Siemens Industry Technical Training Center

5F, Yi De Building, 1538 Yan An Xi Road, Shanghai 200052

Tel: 021-62815933

Email: slc.training@siemens.com

Fax: 021-62810713



Siemens Industry 4.0 Solution Training

Digitalization Solution based on TIA Portal

TIA Portal is the totally integrated automation engineering platform, it is also the automation gateway to digital enterprise, which is integrated with industry 4.0 new features, for example, the collaboration work with PLM, MES, and Industry Cloud MindSphere; Energy Management, Automated Engineering and so on. TIA Portal is important part of digital factory, meanwhile is also the steppingstone to digital factory for traditional enterprises.

This course will base on industry 4.0 new features of TIA Portal V14, and focus on the connectivity to Tecnomatix for virtual commissioning, the connectivity to MES for production data, energy suite, automated engineering etc.. After the training, the attendees are able to understand and experience the digitalization as automation role; Furthermore they get the basic knowledge about the data interfaces to upper level IT system.

Contents :

- Day 1 Overview
 - TIA Portal V14 Operations
 - S7-1500 and WinCC OPC Configuration and Commissioning
- Day 2 Tecnomatix Process Simulate Operation
- Day 3 Tecnomatix Process Simulate and PLCSIM Connection
 - Casestudy: Flexible Manufacturing Cell (FMC)
- Day 4 MES Connectivity and Production Data
- Day 5 Visualization Architect (SIVArc)
 - Energy Monitoring and Analysis



Course Registration

Course Code : F4002

Course Name : Digitalization Solutions based on TIA Portal

Course Length : 5 days

Course Price : 7500 RMB /person (incl. VAT)

Target Group : Automation Engineer, Software Engineer with basic automation background

Prerequisite Knowledge : IT basics, PLC basics

Training Place : Siemens Industry Technical Training Center

Training Time : Refer to <Siemens Training Plan> or SITRAIN Website

Registration : Attached <Siemens Training Application Form>, or Booking in SITRAIN Website

More Course Information

Please visit <http://www.siemens.com.cn/sitrain>

Contact your Siemens Training Consultants

Siemens Industry Technical Training Center

Shanghai Tel 021-6281 5933

Fax 021-6281 0713

Beijing Tel 010-6476 8958

Fax 010-8476 3932



From Planning to Execution: The digitalization excursion of a PC mouse

In recent 15 years, SIEMENS has developed plenty of softwares which could provide customers a holistic automation solution to meet their requirements of digital factory, and that is Digital Enterprise Software Suite. By using SIEMENS softwares, every part of product life cycle can be linked easily, such as: PLM can help to design and optimize products in a total virtual environment. As for the real world, TIA, which has been widely and reliably used for more than 20 years, can ensure a highly efficient connectivity throughout all the parts of automation system.

This course elaborates the concept of SIEMENS digitalization. Through a real case (PC mouse production), participants will have an opportunity to go through the related episodes of product lifetime management, such as Product Design, Production Planning, Production Engineering and Production Execution, thus a detailed cognition and perception of SIEMENS digitalization will be available. Different from a general speech, this course contains well-designed exercises, a background story and a real project, which of-course help participants to get a deeper understanding and a real experience about SIEMENS digital twin.

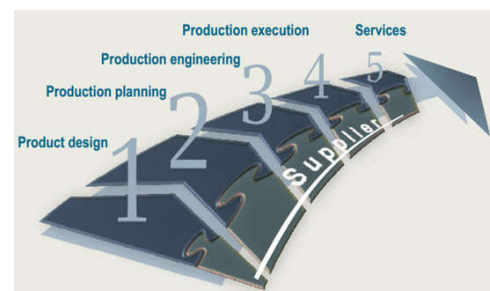
This course involves these software: Tecnomatix Process Designer, Tecnomatix Plant Simulation, Tecnomatix Process Simulate, TIA Portal V14, Industrial Data Bridge.

Agenda :

Day1	SIEMENS digitalization Import a product model Design MBOM, BOP and resource Create model of production line	Define operations Simulate operations	Day2	PLC code Configure HMI Virtual commissioning Plant simulation Connect between PLC&MES
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Course application:

Course code	: F4003
Course name	: From Planning to Execution: The digitalization excursion of a PC mouse
Length	: 2 Days
Price	: 3000RMB/Participant (Incl. VAT)
Participants	: Planning persons; Process engineers; Manufacturing engineers, Automation Engineers
Pre-requirements	: Basic knowledge of automation and process planning
Schedule	: Shanghai 2017.06.27 – 06.28; Beijing 2017.08.01 – 08.02; Wuhan 2017.08.22 – 08.23; Guangzhou 2017.09.26 – 09.27; Chongqing 2017.10.24 – 10.25; Shenyang 2017.11.28 – 11.29;
Application	: through<Course application form> , or visit our website: siemens.com.cn/sitrain
Any question	: contact our training consultants (found in our website)



More information

Please visit our website
<http://www.siemens.com.cn/sitrain>
or contact our training consultants

Shanghai Tel: 021-6281 5933
Fax: 021-6281 0713

Beijing Tel: 010-6476 8958
Fax: 010-8476 3932

Contact us

Guangzhou Tel: 020-3718 2012
Fax: 020-3810 2557

Wuhan Tel: 027-8773 6238
Fax: 027-8773 6269

Shenyang Tel: 024-8251 8220
Fax: 024-2294 9881

Chongqing Tel: 023-6381 8887
Fax: 023-6381 8896

Application for Industry Technology Training

Fill out by customer	Customer Information (Required)	
	Trainee Name: _____	
	Address & Postcode: _____	
	Company: _____ Contact Person: _____ Tel: _____	
	Fax: _____ Mobile: _____ Email: _____	
Payment Transaction (Please get related info from financial staff of payer)		
Company Name : _____		
Tax Number : _____		
Tax registration address: _____		
Tax registration Tel: _____		
Bank Name & Bank Account: _____		
Application for the Course (Required)		
Course Code: _____ Course Name: _____ Date: _____ Place: _____ Price: _____		
Course Code: _____ Course Name: _____ Date: _____ Place: _____ Price: _____		
Do you need us to help you arrange the accommodation?: _____ Date: _____		
Payment: TT <input type="checkbox"/> Cash <input type="checkbox"/> Other <input type="checkbox"/>		
Note: _____		
<p>Attention :</p> <ol style="list-style-type: none"> 1. Please serious fill out the above information. 2. Please fill out it in Note or contact with the training consultant, if you have any special requirement. 3. Training Fees include training, training materials, practice on the equipments, stationery and work lunch. 4. The application will give effect as the training order, after the authorized signature. 	<p style="text-align: center;">Issuer</p> <p>Authorized: _____</p> <p>Date: _____</p>	
Fill out By Siemens	<p>The advice and requirement from the training consultant :</p> <p style="text-align: right; margin-top: 20px;">Sign by the training consultant: _____</p>	

Please fax it to the training consultant in your located region.

Region North (Beijing) : 010-84763932

Region East (Shanghai) : 021-62810713

Region Central (Wuhan) : 027-87736269

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