

GRID SOFTWARE UNIVERSITY

PSS ODMS

Course Catalogue

Document : GSW-U-PSS-ODMS

SIEMENS

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PSS ODMS Training

Introduction

Employee development is a key factor in mastering the energy transformation and digitalization challenge. Siemens understands the importance of having adequately trained personnel for reliable and safe network management and operation.

Siemens has developed a broad set of courses specifically to train our customers on the PSS ODMS software. Our training programs utilize a hands-on approach integrating a role-based methodology throughout the curricula.

Training Program

PSS ODMS Training Courses are arranged into the following categories based on common roles and responsibilities of the typical electrical power utility business. This structure is offered as a guideline to assist customers in developing the best training plan with the support of Siemens for their employees, thereby providing a value-added approach.

PSS ODMS Basics– Provide a high-level overview of the system, software architecture and hardware of PSS ODMS; It is primarily for Project Managers, administrative support (IT) personnel as well as end users.

PSS ODMS Adanced Analysis – Technical classes that teach how to work with PSS ODMS power system engineering and simulation functions such as topology analysis, power-flow, contingency analysis and state estimation.

PSS ODMS Python Automation – Deep dive technical session focused on Python API automation for workflow/process automation purpose.

Language

Our courses are available in English. You can see the available languages in the general information section of each specific course. For classes in any other language, an interpreter might be necessary, and course customization charges might apply. Customers with language translation requirements should contact Siemens Training Department.

Delivery Methods

Our courses are available via multiple delivery methods:

Classroom	Instructor-led training session at a formal classroom setting at Siemens
Remote	Live, Instructor-led training session given via online conferencing tools
On-Site	Instructor-led training session provided at the customer facility in a training environment supplied by the customer
eLearning	Pre-recorded training session provided on demand
On-The Job	Execute tasks and get hands-on experience, under the supervision of a trainer

You can see the available Delivery Methods in the general information section of each specific course.

Training Material

Training materials are specifically developed for PSS ODMS training courses. Siemens shall provide all necessary training materials, including course manuals and reference material in hard copy and/or PDF (Portable Document Format) files. Each trainee shall receive individual copies of the training materials. The contents of PSS ODMS training materials are confidential and proprietary, and usage is protected by Siemens copyright and to be used for internal use only.

Course registration and Contact information

Registration requests should be submitted to the Training Center no later than 15 business days prior to the scheduled begin date of any class. To ensure adequate access to the laboratory equipment, enrollment in many of the classes is limited. Seating for classes is reserved in the order that requests are received.

For registration, or if you want to get more information about our courses or have special training requests, please reach out to your local Siemens sales partner, or contact us directly at gridsoftware-training@siemens.com

Cancellation Policy

Siemens may cancel classes with less than the minimum of five (5) registered students, no less than two weeks prior to the scheduled start of that class. Any enrolled students would be notified of the cancellation and optionally rescheduled for a later offering.

Customer cancellation of student enrollments received less than two weeks prior to the start of the class will be subject to a cancellation fee equal to 50% of the tuition. If an enrolled student fails to appear for a scheduled class, a cancellation fee equal to 100% of the tuition will be charged.

PSS ODMS
Model Engineering

PSS ODMS – Model Engineering

Objectives

This course presents the PSS ODMS model engineering topics. The course serves as a walk-through of system overview and detailed model engineering capabilities.

General Information

Course Code	GSW-U-PSS-ODMS-MDE
Delivery-Method	Classroom, Remote and On-Site
Duration	2 days
Language	English

Target Audience

This course is targeted for all who need an introduction to the system e.g. operators, planners, system administrators, and management personnel

Prerequisites

- None

Content

Part I – PSS ODMS Overview:
- Architecture
- Features
- Menus
- Basic views
- Directory Setup
- Log Directory
- Documentation

Part II – Engineering Model Maintenance:
- Importing a New Model
- Model Maintenance
- Importing and Exporting Models
- CIMEdit
- Model > CIMEdit
- Configure – set CIM16 to SampleView_CIM16
- Enumerated Types
- View and navigation
- Editing and adding data
- Contextual Menus
- Compare Models
- Diagrams
- Navigation
- Diagram Menu items
- Substation One Lines
- Editing Topology
- Arranging
- Editing Equipment Parameters
- World View One Lines
- Mixed one lines
- Editing Model from the One Line
- Setup PSS E data
- Bus Name Marker
- Topological Node
- Conducting Equipment PSS E ID
- Switched Shunt Data
- Retained Switches
- Bus Mapping Table

Part III – Project Modeling:
- Creating Projects
- Creating and Manipulating Scenarios
- Recording Phases
- Import and Exporting Projects and Scenarios
- Manipulating one lines in Scenarios

Part IV – Historical Data Modeling:
- Tracking Changes
- Creating a Historical Model

PSS ODMS
Advanced Analysis

PSS ODMS – Advanced Analysis

Objectives

The participants will learn to use advanced analysis functions within PSS ODMS. They will gain domain knowledge from power system simulation basics through advanced control room deployment.

General Information

Course Code	GSW-U-PSS-ODMS-ADV
Delivery Method	Remote and On-Site
Duration	8 hours
Language	English

Target Audience

This course is targeted for operators and planners.

Prerequisites

- GSW-U-PSS-ODMS-MDE

Content

Part V – Network Analysis:

- PSSO Case Building
- Building and Manage Cases
- Archive
- System Operation vs. Model Maintenance View
- Case Tools
- Activities
- Solving and debugging Power flow
- PSSO Options
- Operator Display Options
- Auto solve
- Tabular Display Options
- Outage Ranking
- Contingency Analysis
- User Defined Contingencies
- State Estimation

PSS ODMS
Python Automation

PSS ODMS – Python Automation

Objectives

Comprehensive coverage on all-about Python automation within PSS ODMS.

General Information

Course Code	GSW-U-PSS-ODMS-PYT
Delivery Method	Remote and On-Site
Duration	8 hours
Language	English

Target Audience

This course is targeted for system administrators, IT personnels and system integrators

Prerequisites

- GSW-U-PSS-ODMS-MDE (at least system overview is recommended)
- Understanding of Python and API fundamentals

Content

- Full-day hands on experience with PSS ODMS Python API

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