GRID SOFTWARE UNIVERSITY

Gridscale X Network Model Manager

COURSE CATALOGUE

Document :   GSW-U-NMM-EN-TP

SIEMENS

Contents

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1. Gridscale X NMM Network Model Manager Training

1.1. 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 Network Model Manager. Our training program utilizes a hands-on approach integrating a role-based methodology throughout the curricula.

1.2. Training Program

Gridscale X Training Courses are arranged into 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.

Overview Courses – Provides a high-level overview of the system, software architecture and hardware of the Network Model Manager system; it is primarily for Project Managers, Senior Management, and administrative support personnel who require a comprehensive high-level overview or introduction of the Network Model Manager system.

Operation & Dispatching Courses– Operator/Dispatcher training typically planned in coordination with the project teams for those who need to learn to operate the system.

Database and Display Courses – Technical classes that teach how to enter, edit, and maintain a Network Model Manager database and build graphical displays.

System Administration and Communications Courses – Technical instruction focused on the administrative duties required for the Network Model Manager applications and the configuration, administration, and use of communication protocols.

Applications Courses – Courses that focus on a variety of power systems applications.

Workshops – Workshops span a variety of topics and are developed considering customer specific requirements. Workshops are not part of the standard Network Model Manager courses. They require special scheduling arrangements and are priced based on requirements and necessary preparation.

1.3. Language

Our courses are available in English, or German. 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.

1.4.   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
e-Learning	Pre-recorded training session provided on demand
Blended Learning	A combination of eLearning and instructor led training
On-The-Job	Execute tasks and get hands-on experience, under the supervision of a trainer

You can see the suggested roles in the target audience section of each specific course.

1.5.   Role Based Training

Siemens supports a role-based training curriculum. The course descriptions specify Job Roles as the target audience, as well as noting prerequisite skills. Job roles are associated with job activities. Often one person will fulfill multiple job roles and will benefit from the training recommended for each role.

Job Role	Job Activities
Management	Instructor-led training session at a formal classroom setting at Siemens
Database Administrator/ Engineer	Defining the structure of the database, trouble shooting, defining data, coordinating data migration activities, backing up and restoring the database
System Administrator	Installing and upgrading the software incl. 3rd party Network Model Managers, ensuring the security of the system, tracking of problem reports
System Hardware Maintainer/Administrator	Installing, testing, and commissioning the hardware, diagnosing problems, maintaining spare parts
Application Programmer	Specifying, designing, and/or implementing the application logic and data requirements
Operator/Dispatcher	Operating the process system using the application software

You can see the suggested roles in the target audience section of each specific course.

1.6.   Skill Levels

The Post-Training Skill Level indicates the learner's skill and knowledge after training. Not all trainees need to achieve the same post-training skill level in a subject area. The training plan lists three different post-curriculum skill levels:

Post-Training Skills Level	Skills Acquired	Typical Trainees
Overview	A basic knowledge of the functions, interfaces, and issues	Those who need to discuss the subject with users and experts
User	The skills necessary to accomplish given tasks.	Those who need to perform the subject tasks
Expert	The special skills and knowledge required to analyze problems and provide guidance to others	Those who need to teach, troubleshoot, and/or enhance the Network Model Manager

1.7. Training Material

Training materials are specifically developed for Gridscale X NMM 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 Gridscale X NMM training materials are confidential and proprietary, and usage is protected by Siemens copyright and to be used for internal use only.

1.8. Training Methods

There are several ways to acquire training in the use of the Network Model Manager and the software that supports it. Instructor-led training is delivered by a combination of Siemens instructors and third-party vendors. Since the third-party (3PP) training is limited to Commercial Off the Shelf Network Model Manager (COTS), Siemens offers the 3PP training as a recommendation the given customer. Third Party Network Model Manager training is not included in this proposal because often customer personnel already possess these skills as required to operate and maintain the third-party Network Model Managers.

Siemens instructors provide training on Gridscale X NMM software installation, usage, and application interfaces. Both Siemens and the computer manufacturer provide training on computer hardware. Siemens instructors are energy control system professionals who know the applications and the purpose of the energy control system.
Instructor-led training can be offered as a dedicated class or as individual enrollments in a scheduled class. Dedicated classes can be arranged virtually, customer site and/or a Siemens facility. Most scheduled classes are conducted at a Siemens facility. The number of students in a class depends on the customer's requirements, the availability of equipment, and the level of instructor-student interaction.

Siemens Training Services offers classes in two rate schedules: open enrollment and private classes.

• Open enrollment: An open enrollment rate indicates the per student price to attend a class. Open enrollment training is conducted at a Siemens facility. Since multiple customers may attend the same class, the course content covers Siemens' base Network Model Managers. Nevertheless, our instructors frequently answer customer-specific questions.
• Dedicated classes: A private class allows the customer (project) to select up to ten students who can attend the class for a fixed price.

Since the class is conducted for a specific customer, Siemens Training Services can offer customization services.
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

1.9. Training Facility

The Siemens training facility in offices globally. It consists of training rooms, offices, and test floors. The training rooms can accommodate up to eight students. They function as both lecture rooms and laboratories, providing instant computer resources to apply lessons and to investigate student questions. The rooms are equipped with projection devices to illustrate the instructor's lecture and to demonstrate the system's functionality, as well as individual workstations.

2. Network Model Manager Overview Courses

2.1. Gridscale X Network Model Manager Setup/Administration

Objectives

This course is intended to assist participants in the setup of the Gridscale X Network Model Manager. It will provide instruction on configuring the Gridscale X Network Model Manager Web Portal and offer insights into understanding the Base Case Data set.

General information

Course Code	GSW-NMM-ADMIN
Delivery Method	Classroom, Remote, On-Site
Duration	8 hours
Language	English

Target Audience

Roles: System Administrators

Prequisites

- None

Content

- Gridscale X Network Model Manager Overall Design
- Installation and setup
    - Kubernetes installation
    - Containers import and setup
    - Network Model Manager configuration
- Model Administrator
    - Create model
    - Import base case
    - Open/Close models
    - Replacement of Base Case
    - Freeze/Unfreeze model
    - Publish model
    - Delete model
    - Model migration from existing PSS®MOD models
- Web Portal Setup
    - Setup of Project Types and Status
    - Identity management
        - Roles
        - Organization units
        - User Setup
    - User login
    - Password Policy
    - Managing user account and preferences
    - Configure application preferences
        - Personal info
        - Security
        - Notification management
    - User manual

2.2. Using GridscaleX Network Model Manager

Objectives

This course is designed to instruct participants on how to import data into Gridscale X Network Model Manager. Additional tasks covered include submitting data through the approval system, creating cases, viewing logs, and defining user-specific project data.

General information

Course Code	GSW-NMMUSAGE-MOD
Delivery Method	Classroom, Remote, On-Site
Duration	16 Hours (2 Days)
Language	English

Target Audience

Roles: PSS®E Planning Engineers

Prequisites

- Understanding of PSS®E Basics
- Gridscale X Network Model Manager Setup/Administration

Content

- Project Planning
- Base Case
    - Viewing and navigation
    - Filtering views
    - Search
    - Export base case
    - Re-importing base case
- Projects and Phases
    - Project/phase design
    - Building project/phase by hand
    - Importing projects
    - Filtering and editing projects
    - View phase changes
    - Attachment and comments for project/phase
    - Importing and exporting Projects
    - Validating projects
    - Assigning projects
    - Advanced project filtering
    - Project reports
- Ratings
    - Importing ratings
    - Viewing and editing ratings data
    - Search ratings data
    - Export ratings
    - Validating ratings
    - Configuring rating names
- Profiles
    - Importing Load/Gen, Device Control and NSI profiles
    - Base profiles
    - Updating base profiles
    - Batch Import
    - Validating profiles
    - Configuring profile columns

- Case Definitions
    - Creating
    - Saving
    - Publishing
    - System wide data entry
    - Batch Case Create
    - Creating Cases with and without PSS®E Solutions
        - Selecting project phases
        - Manipulating project phase order
        - Selecting profiles
        - Selecting ratings
        - Case data and options
        - Case create detailed log
        - Creating, Sharing and Reusing Filters
- Refreshing Case Definitions from Saved FiltersAudit Logs
    - Log menu
    - View and filter security logs
    - View and filter audit logs

Change History

Issue Date	Version	Author	Change
2/2025	V 1.0	V Adamek//Ali Tahraci/N.Lucena	Initial version
5/2025	V 2.0	V Adamek//Ali Tahraci/N.Lucena	Formated version