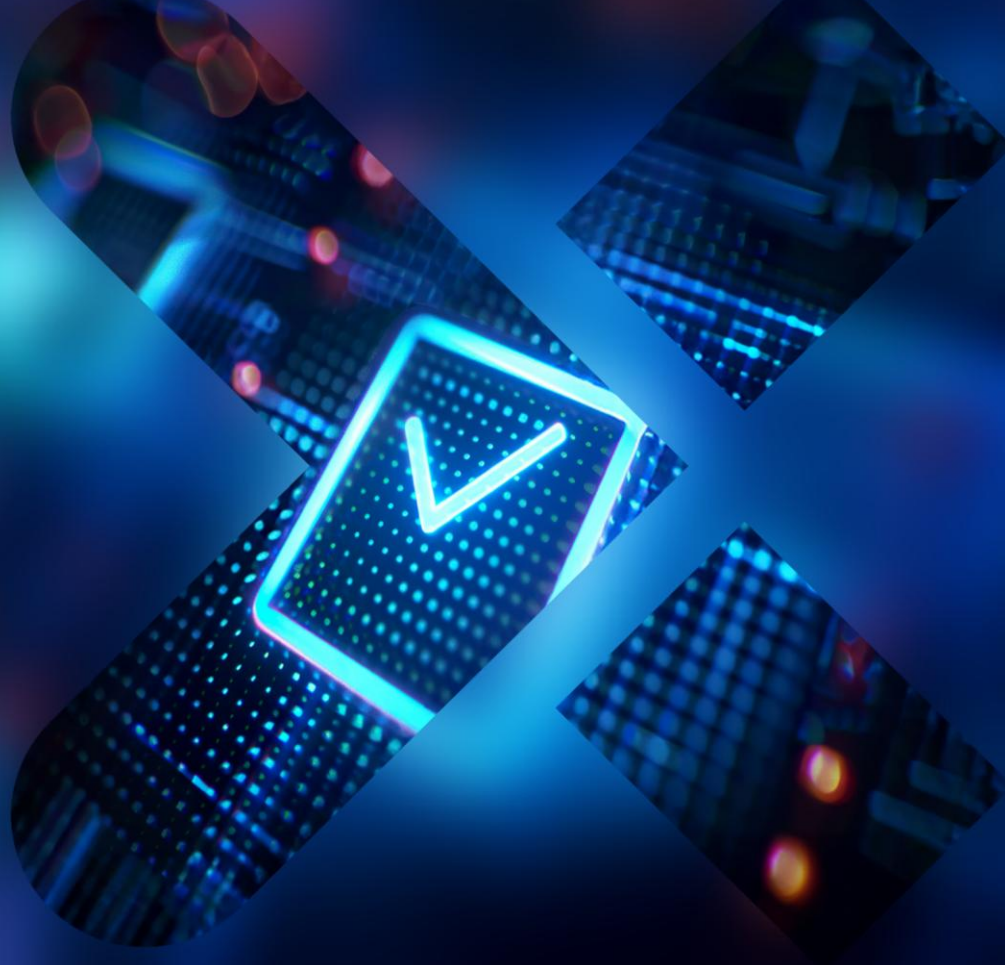




GRID SOFTWARE UNIVERSITY

Gridscale X LV Management Training Catalogue

SIEMENS

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Training Philosophy

Siemens has developed a broad set of courses specifically to train our customers on the Gridscale X LV Management use cases, as well as technical onboarding and operational adoption. Our training program utilizes a hands-on approach integrating a role-based methodology throughout the curricula.

Siemens' comprehensive training program is designed to prepare customer personnel for implementation, onboarding and adoption of the Newest Gridscale X use cases. This program is based on years of experience as a supplier and industry leader in energy sector and training.

Siemens is committed to preparing utility employees to respond in the most appropriate way to conditions that may arise during the life of the system. Siemens recognizes the importance of adequately trained personnel for the continued success of the customer's Gridscale X LV Management solution. Customer objectives of preparation for technical onboarding and operational adoption of the Customers are closely aligned with Siemens' training philosophy and are integral to the training program proposed.

Flexibility is built into our training model, and Customer can choose from a large variety of courses and view on our [Siemens Grid Software \(GSW\) Landing page](#) and further on our [Siemens GSW Learning Management System \(LMS\)](#) to see current course catalogue, offerings and schedules.

This section describes the Siemens training programs in general. There is a list of the proposed courses and optional Training. The course descriptions of each course proposed to Customer are included in the offer.

Training Program

Gridscale X LV Management training courses are arranged into categories based on common roles and responsibilities of the typical business and associated implementation approach. 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.

Training Plan

Siemens has proposed base training and provides additional training options to meet Customer's requirements.

The Training Plan clarifies the responsibilities of Siemens, Customer, the instructors, and the students in executing a successful plan. The objectives of each course, the sequencing of the classes, and the location and time of each class will be selected to meet personnel schedules and project milestones.

Course Descriptions

Standard Training Course Descriptions are provided including the following items:

- Course Description
- Course Objectives
- General Information (Code and Duration)
- Prerequisites
- Goals
- Topics

The Training Plan includes information on the training of custom course offerings and standard offerings. The Training Plan will include the following additional details:

- Location
- Course Dates
- Delivery options

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

Language

Our online courses are readily available in **English**, with provisions for other languages that can be arranged for certain courses upon advance request.

For specific language requirements or to inquire about translation services, we encourage customers to contact the Siemens Training Department.

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 by roles as listed below:

- Project Managers
- Data Modelling Engineers
- Systems and Solution Integrators
- Users/Operators

Training Material

Training materials are specifically developed for Gridscale X LV Management training courses. Siemens shall provide all necessary training materials, including course manuals and reference material in Portable Document Format (PDF) files.

Each trainee shall receive individual copies of the training materials. The contents of Gridscale X LV Management training materials are confidential and proprietary, and usage is protected by Siemens copyright and to be used for internal use only.

Training Methods

There are several ways to acquire training in the use of Gridscale X LV Management and the software that supports it. Instructor-led training is delivered by a combination of Siemens instructors and trained consultants. Siemens instructors provide training on Gridscale X LV Management software use cases, building the grid model and interfaces. Siemens instructors are Gridscale X LV Management professionals who know the applications and the purpose of the software application.

Instructor-led training can be proposed 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 on multiple-rate schedules: open enrollment and private dedicated 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 products. 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.

Gridscale X LV Management Training Programs

The Gridscale X LV Management training programs are outlined below. Each Training Program is created from individual courses which are referenced and described in the [Training Course Index](#).

The following training programs are all related to LV Management courses.

LV Management for Project Managers

The **LV Management for Project Managers** training program includes the following courses:

1. [Introduction to Gridscale X](#)
2. [User Training - Gridscale X LV Management](#)
3. [Onboarding and Adoption Methodology](#)

Access the training program here: [Link](#)

LV Management for GIS Engineers

The **LV Management for GIS Engineers** training program includes the following courses:

1. [Introduction to Gridscale X](#)
2. [User Training - Gridscale X Grid Model Builder](#)
3. [User Training - Gridscale X LV Management](#)
4. [Building the Grid Model for LV Management](#)

Access the training program here: [Link](#)

LV Management for Integrators

The LV Management for Integrators training program includes the following courses:

1. [Introduction to Gridscale X](#)
2. [Gridscale X Integrations and APIs](#)
3. [User Training - Gridscale X LV Management](#)
4. [LV Management - Integrating External Systems](#)

Access the training program here: [Link](#)

LV Management for Operators

The LV Management for Operators training program includes the following courses:

1. [Introduction to Gridscale X](#)
2. [User Training - Gridscale X LV Management](#)

Access the training program here: [Link](#)

Gridscale X LV Management Course Index

The index below outlines the list of courses available for Gridscale X LV Management:

General Information

Course Code	Course Name	Delivery Method	Duration
GSW-U-GridscaleX_EN_01	Introduction to Gridscale X	eLearning	10 minutes
GSW-U-GridscaleX_EN_02	Onboarding and Adoption Methodology	eLearning	50 minutes
GSW-U-GridscaleX_EN_03	Gridscale X Integrations and APIs	eLearning	60 minutes
GSW-U-GridscaleX-GMB_EN_01	User Training - Gridscale X Grid Model Builder	eLearning	50 minutes
GSW-U-GridscaleX-LVM_EN_01	User Training - Gridscale X LV Management	eLearning	60 minutes
GSW-U-GridscaleX-LVM_EN_02	Building the Grid Model for LV Management	eLearning	30 minutes
GSW-U-GridscaleX-LVM_EN_03	LV Management - Integrating External Systems	eLearning	30 minutes

Introduction to Gridscale X

Objectives

This course will enable us to understand the strategic purpose of Gridscale X while exploring its comprehensive product portfolio. We will also examine outstanding success cases and evaluate the positive impact that Gridscale X adoption has had on the operations of different clients.

General Information

Course Code	GSW-U-GridscaleX_EN_01
Delivery Method	eLearning
Duration	10 minutes
Language	English

Target Audience

All

Prerequisites

None

Content

Module 1: Introduction to Gridscale X - Covers the foundation of Gridscale X, its product portfolio and analyzes success cases demonstrating impact on electrical distribution networks.

Onboarding and Adoption Methodology

Objectives

Participants will understand the complete onboarding lifecycle and be able to apply the methodology to ensure successful project start-up.

General Information

Course Code	GSW-U-GridscaleX_EN_02
Delivery Method	eLearning
Duration	50 minutes
Language	English

Target Audience

All

Prerequisites

None

Content

- Module 1 - Technical Onboarding & Operational Adoption
- Module 2 - Planning for Success
- Module 3 - Technical Onboarding Execution
- Module 4 - Operational Adoption & Transformation
- Module 5 - Business Value and Customer Success

Gridscale X Integrations and APIs

Objectives

General training is tailored for IT professionals, including customer IT teams and system integrators, aiming to facilitate the integration of Gridscale X offerings into a customer's environment using Gridscale X interfaces.

The audience will gain valuable insights into a high-level integration architectural blueprint, illustrating the seamless integration of Gridscale X Products with the customer's IT/OT systems. Additionally, the training provides an understanding of the technology stack powering Gridscale X interfaces and the security framework. It also offers recommended approaches and best practices for developing integrations, equipping architects and developers to design efficient and optimal solutions.

General Information

Course Code	GSW-U-GridscaleX_EN_03
Delivery Method	eLearning
Duration	60 minutes
Language	English

Target Audience

- IT Engineer
- Solution Architect
- System Integrator

Prerequisites

- [Introduction to Gridscale X](#) course
- Basic Understanding of APIs and system integration
- Programming Skills (e.g., Python, Java, JavaScript) - (Optional but Recommended)
- Familiarity with IT Infrastructure and Security Principles
- Relevant Industry Knowledge and familiarity with the energy domain where Gridscale X is applied (Optional)

Content

- **Module 1: Integration architecture** - Overview of Gridscale X integration architecture, component interactions, layered design and product touchpoints with utility systems.
- **Module 2: Security framework** - Explores authentication, authorization, transport security and data protection strategies across the platform.
- **Module 3: Integration patterns** - Examines various integration patterns to guide architects and developers in designing optimal solutions.
- **Module 4: Best practices** - Provides guidance and best practices for designing, implementing and maintaining integrations with Gridscale X.

User Training - Gridscale X Grid Model Builder

Objectives

This course is designed to help understand the strategic importance of creating a digital twin that provides a comprehensive view through digital representation. To develop this digital twin, we use the corporate GMB tool, which enables us to perform data modeling efficiently.

Throughout the course, we will review step by step the complete model creation process, from initial preparation to operational implementation.

General Information

Course Code	GSW-U-GridscaleX-GMB_EN_01
Delivery Method	eLearning
Duration	50 minutes
Language	English

Target Audience

Grid engineer

Prerequisites

- [Introduction to Gridscale X](#) course
- Basic knowledge of electrical distribution networks
- Knowledge of GIS and asset management

Content

- **Module 1: Overview of Grid Model Builder** - Analyzes network modelling, explores GMB capabilities and shows how the digital twin eliminates data silos.
- **Module 2: Modeling process with Grid Model Builder** - Details the end-to-end process for modelling customer data, from initial preparation to export and operation.
- **Module 3: Best practices**

User Training - Gridscale X LV Management

Objectives

In today's evolving energy landscape, efficient low-voltage network management is critical for ensuring reliability and optimizing operations. This training introduces LV Management, a key component of the Gridscale X portfolio designed to streamline the supervision and control of low-voltage grids.

The course provides a comprehensive understanding of LV Management's core functionalities, applied to specific use cases such as grid stabilization and low-voltage outage resolution. Participants will learn how the tool supports operational decision-making, improves network visibility, and enables faster response to grid events.

Ideal for professionals involved in grid operations, planning, and innovation, this course equips participants with both the technical knowledge and strategic perspective required to maximize the value of LV Management.

General Information

Course Code	GSW-U-GridscaleX-LVM_EN_01
Delivery Method	eLearning
Duration	60 minutes
Language	English

Target Audience

Operators

Prerequisites

- [Introduction to Gridscale X](#) course
- [User Training Gridscale X - Grid Model Builder](#) course
- Basic knowledge of electrical distribution networks
- Knowledge of GIS and asset management

Content

- **Module 1: Introduction to LV Management** - Provides a foundational understanding of LV Management's role, purpose and key benefits for modern distribution grid operations.
- **Module 2: Use Case Grid Digitalization** - Explains how LV Management creates a dynamic digital twin of the low-voltage network to support scenario simulation and decision-making.
- **Module 3: Use Case LV Outage Resolution** - Shows how integrations with MDM, SCADA and OMS accelerate outage resolution and improve customer satisfaction.
- **Module 4: Use Case LV Grid Stabilization** - Describes how telemetry integration enables operators to run the grid closer to its limits, enhancing efficiency and reliability.

Building the Grid Model for LV Management

Objectives

This course is aimed at IT professionals and data engineers, and its objective is to teach which elements and attributes should be included in the data to generate a model that is appropriate for LV Insights, why each is necessary and how it impacts the quality and exportability of the model, and a holistic view of the software to understand the interrelationships between data, processes, and results. By the end, participants will be able to apply these principles in real projects, with a clear understanding of the dependencies of the LV Insight and the corresponding model.

General Information

Course Code	GSW-U-GridscaleX-LVM_EN_02
Delivery Method	eLearning
Duration	30 minutes
Language	English

Target Audience

Grid Engineer

Prerequisites

- [Introduction to Gridscale X](#) course
- [User Training Gridscale X - Grid Model Builder](#) course
- Basic knowledge of electrical distribution networks
- Knowledge of GIS and asset management

Content

- **Module: Building the Grid Model for LV Management** - Demonstrates common modelling errors that occur when required attributes are omitted.
- **Data Preparation - LV Management** (Job Aid) - Reviews necessary modelling requirements, focusing on data consistency, validation rules and output structure to ensure a correct LV Management model.

LV Management - Integrating External Systems

Objectives

This course provides practical guidance on integrating LV Management with external IT and OT systems across the utility landscape. Participants will learn how to connect metering, SCADA, and asset management systems to support low-voltage grid digitalization, outage resolution, and grid stabilization. The course covers integration architectures, data mapping, API configuration, and real-time communication protocols, enabling participants to design, deploy, and maintain effective LV Management integrations.

General Information

Course Code	GSW-U-GridscaleX-LVM_EN_03
Delivery Method	eLearning
Duration	30 minutes
Language	English

Target Audience

Integrator

Prerequisites

- [Gridscale X Integrations and APIs](#) course
- Basic knowledge of electrical distribution networks
- Knowledge in the management of distribution networks

Content

- Module 1: Integration for Outage Resolution
- Module 2: Integration for Grid Stabilization

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