

Power Academy  
Be enriched!



TRAINING PROGRAM 2024

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**SIEMENS**

# Power Academy

## Be enriched!

Training and consulting for personal and business success – that is the Siemens Power Academy concept for all aspects of power transmission and distribution.

With us, you get individual advice and training tailored to your needs, which you can enjoy in a relaxed atmosphere.

We help you to make competence requirements transparent and, based on this, develop individual curriculum recommendations and customized training courses.

The training courses of the Siemens Power Academy are a quality time experience. They enriches emotionally, makes you want to stay with it and contributes to the long-term success of the company.



# Power Academy Portfolio



## Fundamentals

Basics Electrification & Automation, Basics of Transmission & Distribution, etc.



## Digital Substation

Station & Process Level Integrated Engineering, etc.



## Medium-voltage

8DA/DB, 8DJH, NXAIR, NXPLUS C, blue GIS, etc.



## Grid Operation

Switching authorization, Power Installation and Networks, etc.



## Protection

SIPROTEC 5, DIGSI 5, Digital Twin, etc.



## Grid Planning & Simulation

PSS®SINCAL Basics and Protection, etc.



## Power Quality

7KE Fault Recorder, SICAM PQS Analyser, etc.



## Sustainability

Awareness, Enablement, Transformation, etc.



## Substation Automation

SICAM PAS, SICAM SCC, SICAM CFC, ST, SC, etc.



## Cybersecurity

Application & Exercise, IT Networks, RuggedCom, etc.



## Smart Communication

PowerLink, Telecontrol SWT3000, etc.



## Microgrid

SICAM A8000, Load Shedding, Photovoltaic, etc.



## ConsulTrain™

Combines the Benefits of Training and Consultancy



## eMobility

Implementation and Operation, SICHARGE, etc.



## SiEnergy™

Emergency Situations during Energy Supply



Training program 2024

# Fundamentals

## Electrification & Automation

Basics of Electrification & Automation

GEN-BEA

Basic of Energy Economics and Power Markets

GEN-BEPM

## Transmission & Distribution Networks

Transmission & Distribution Networks - Basics Part 1

PE-TDNET1

Transmission & Distribution Networks - Basics Part 2

PE-TDNET2

## Protection

Basic for Protection Engineers

ET-BASPR

Basic Course on Numerical Protection System

CU-BPS

Basic Course on New Generation Digital Substation & Microgrids

VT-CUBDS

Protection Technology - Principles

PR-PRIN

## Medium Voltage

MV - Technical Information Course (AIS & GIS)

MV-INFO

## Transformers

Power Transformers - Basics & Operation

TR-PT

# Protection

## Protection

### Fundamentals

Basic for Protection Engineers	ET-BASPR
Basic Course on Numerical Protection System	CU-BPS
Basic Course on New Generation Digital Substation & Microgrids	VT-CUBDS
Protection Technology - Principles	PR-PRIN

### DIGSI 5

DIGSI 5 - Basics	DIGSI5-B
DIGSI 5 - Systems	DIGSI5-S
DIGSI 5 - Refresher	DIGSI5-R
DIGSI 5 - Upgrade	DIGSI5-UGE
DIGSI 5 - CFC Logic	DIGSI5-C

### SIPROTEC 5

SIPROTEC 5 - Application & Exercises	SIP5-APX
SIPROTEC 5 - Compact	SIP5-C
SIPROTEC 5 - Process bus Engineering	SIP5-PB1
SIPROTEC 5 - Process bus Commissioning & Testing	SIP5-PB2
SIPROTEC 5 with Motor Protection	SIP5-7SJSK
SIPROTEC 5 - Distance & Line Differential Protection 7SL	SIP5-7SL
SIPROTEC 5 - Transformer Differential Protection device 7UT	SIP5-7UT
SIPROTEC 5 - Busbar Protection 7SS	SIP5-7SS
SIPROTEC 5 - Machine Protection 7UM & 7VE	SIP5-7UMV

# Protection

## DIGSI 4

DIGSI 4 - Basics

DIGSI4-B

DIGSI 4 - Advanced

DIGSI4-A

DIGSI 4 - IEC 61850 & GOOSE Configuration

DIGSI4-I

## SIPROTEC 4

SIPROTEC 4 - Application & Exercises

SIP4-APX

SIPROTEC 4 - Overcurrent & Motor Protection 7S

SIP4-7SJ

SIPROTEC 4 - Distance Protection 7SA

SIP4-7SA

SIPROTEC 4 - Transformer Differential Protection 7UT

SIP4-7UT

SIPROTEC 4 - Busbar Protection 7SS

SIP4-7SS

# Power Quality

## Power Quality

### Basics

Basics of Power Quality

### SICAM PQS

SICAM PQS - SICAM PQ Analyzer

PQ-SICAMPO

### Fault Recorder

SIPROTEC 7KE85 - Fault Recorder, SICAM Q100 - PQ Recorder

PQ-7KE85

### Industrial Networks

Industrial Networks

ID-NET



# Primary Technology

## Medium Voltage

### Fundamentals

MV - Technical Information Course (AIS & GIS) MV-INFO

MV - Vacuum Circuit Breaker MV-VCB

### Assembly & Installation

8DA/8DB - Assembly & Installation MV-8DA8D

8DA/8DB - Assembly & Installation - Refresher MV-R8DAB10

8DJH - Assembly & Installation MV-8DJH

NXAIR - Assembly & Installation MV-NXAIR

NXPLUS - Assembly & Installation MV-NXPLUS

NXPLUS - Assembly & Installation - Refresher MV-RNXPLUS

NXPLUS C - Assembly & Installation MV-NXPLUC

NXPLUS C - Assembly & Installation - Refresher MV-RNXPLUC

### Operation & Maintenance

8DA/DB - Maintenance MV-8DADBM

3AH5 Vacuum Circuit Breakers - Maintenance MV-3AH3

3AH4 Vacuum Circuit Breaker - Maintenance MV-3AH4

### Generator Breaker System

Generator Switchgear (HB3) - Technical information course MV-HB3TIC

Generator Switchgear (HB3) - Service and Maintenance MV-HB3SMC

# Primary Technology

## Transformer

Power Transformers - Basics & Operation Distribution

TR-DT

Transformers - Basics & Operation Power

TR-TP

Transformers - Grounding and Protection

NET-SELT

# Substation Automation

## SICAM

### SICAM PAS

SICAM PAS - Basics	PAS-B
SICAM PAS - Parameterization	PAS-P
SICAM PAS - Complete	PAS-C
SICAM SCC - Configuring an Operator Station	PAS-S
SICAM PAS - Automation with CFC, ST & SFC	PAS-CFC
SICAM PAS - System Diagnosis & Trouble Shooting	PAS-SYS

### Bay Controller

SIPROTEC 5 - Engineering of Bay Controller 6MD8	SIP5-6MD8
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### Telecontrol

Telecontrol and Automation - Fundamentals	ET-TEL
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### RTU & SICAM A8000 - Device Manager

SICAM A8000 - Basic & Engineering (Device Manager)	RTU-BAEDM
SICAM A8000 - Complete for Engineers (Device Manager)	RTU-COMDM
SICAM A8000 - Integrated System Functions and IEC 61850 for Substation Application (Device Manager)	61850DM
SICAM A8000 - retraining course for SICAM Device Manager	A8000UDM

### RTU & SICAM A8000 - TOOLBOX

SICAM RTU & SICAM A8000 - Basics (TOOLBOX)	RTU-BASIC
SICAM RTU & SICAM A8000 - Complete for Engineers (TOOLBOX)	TOOLBOXII
SICAM RTU & SICAM A8000 - Engineering incl. IEC 61850 Client Parameterization (TOOLBOX)	RTU-ENGTB
SICAM RTU & SICAM A8000 - Integrated System Functions and IEC 61850 for Substation Application (TOOLBOX)	61850TB
SICAM RTU & SICAM A8000 - Basics and Maintenance (TOOLBOXII)	RTU-BASICM
SICAM RTU & SICAM A8000 - Maintenance (TOOLBOXII)	RTU-SERVMA

# Smart Communication

## PowerLink

PowerLink - Basics

SITPLB

PowerLink - IP

SITPLIP

CPL PowerLink

SIT-PLB

## SWT 3000

Teleprotection SWT 3000

SITSWT3

# Microgrids

## Microgrids

Microgrid Control - Overview	MG-OV
Microgrid Control - Engineering	MG-ENG
Microgrid - SICAM A8000 & SICAM SCC - Application	MG-SICA8

# Station Information Technology

## Station Information Technology

Cyber Security in Energy Automation - Basics	CS-BAS
Cyber Security in Energy Automation - Application and Exercises	CS-APX
Networks in Energy Automation Module 1: Principles	NT-1BAS
Networks in Energy Automation Module 2: Switching, Hacking and Protection	NT-2SWHS
Networks in Energy Automation Module 3: Routing, Hacking and Protection	NT-3ROHS
Cyber Security in Energy Automation Module 4: Threat Scenarios for Industrial Networks	NT-4TSIN
Cyber Security in Energy Automation Module 6: Best Practice Engineering	CS-6BPE

# Sustainability

## Business

Sustainable Business and Circular Economy - ConsulTrain™ Inspire Sustainable	SUST-BCR
Sustainable Business Transition to Circular Economy - ConsulTrain™ Economic	SUST-T
Sustainable Business and Net-Zero - ConsulTrain™ Inspire	SUST-BN
Sustainable Businesses Strategies for Net-Zero - ConsulTrain™ Economic	SUST-SBSN
Sustainable Business Transition to Net-Zero - ConsulTrain™ One	SUST-O

## Enablement

Sustainability Enablement - ConsulTrain™ Inspire	SUST-E
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## Awareness

Sustainability Awareness - ConsulTrain™ Inspire	SUST-A
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## Transformation

Sustainability Transformation - ConsulTrain™ Inspire	SUST-T
Sustainability Transformation - ConsulTrain™ Economic project	SUST-TE

## Maintenance

ConsulTrain™ Inspire: Maintenance planning for Sustainability	CONS-M
ConsulTrain™ Inspire: Maintenance optimization for Sustainability	CONS-MOP

# Digital Substation

## Station Level

RUGGEDCOM - Basics	RUGCOM-B
RUGGEDCOM - Security in Industrial Networks	SIT-SECRUG
RUGGEDCOM - Switching & Routing in Industrial Networks	SIT-SWIRUG
SIPROTEC 5	SIP5

## Process Level

SIPROTEC 5 - Process bus Engineering	SIP5-PB1
SIPROTEC 5 - Process bus Commissioning & Testing	SIP5-PB2

## Internet of Things

Power Transformers - Basics & Operation	TR-PT
Microgrid Control - Overview	MG-OV
Microgrid Control - Engineering	MG-ENG
PSS®SINCAL - Basics	SINCAL-BAS
PSS®SINCAL - Protection Suite	SINCAL-PRO
Power System Planning - Principles	NET-PRINC
Transmission & Distribution Networks - Basics Part 1	PE-TDNET1
Transmission & Distribution Networks - Basics Part 2	PE-TDNET2
DIGSI 5 - Basics	DIGSI5-B
DIGSI 5 - IEC 61850 & GOOSE Configuration	DIGSI5-I
SIPROTEC 5 - Process bus Engineering	SIP5-PB1
SIPROTEC 5 - Process bus Commissioning & Testing	SIP5-PB2



# Digital Substation

## Internet of Things

RUGGEDCOM - Basics	RUGCOM-B
RUGGEDCOM - Security in Industrial Networks	SIT-SECRUG
RUGGEDCOM - Switching & Routing in Industrial Networks	SIT-SWIRUG
Microgrid - SICAM A8000 & SICAM SCC - Application	MG-SICA8
Cyber Security in Energy Automation - Basics	CS-BAS
Cyber Security in Energy Automation - Application and Exercises	CS-APX
Distribution Transformers - Basics & Operation	TR-DT

## Cyber Security

Cyber Security in Energy Automation - Basics	CS-BAS
Cyber Security in Energy Automation - Application and Exercises	CS-APX
RUGGEDCOM - Basics	RUGCOM-B
RUGGEDCOM - Security in Industrial Networks	SIT-SECRUG
RUGGEDCOM - Switching & Routing in Industrial Networks	SIT-SWIRUG

# Cyber Security

## Basics

Cyber Security in Energy Automation - Basics	CS-BAS
Cyber Security in Energy Automation - Application and Exercises	CS-APX

## Networks

IT Networks & Cyber Security in Energy Automation	CS-NTCS
Cyber Security in Energy Automation - Module 4: Threat Scenarios for Industrial Networks	CS-4AWA
Cyber Security in Energy Automation - Module 6: Best Practice Engineering	CS-6BPE

## SICHARGE

SICHARGE D Configuration Backend (SCB) Introduction	EMOB-SCDSCB
SICHARGE D - Advanced Diagnose and Service	EMOB-SCDADV
SICHARGE D - Technical Service Plus	EMOB-SDPLUS
SICHARGE D - Configuration Backend	EMOB-SB
SICHARGE UC - Commissioning & Maintenance	EMOB-CM
SICHARGE D - Technical Service Pro	EMOB-TSP
SICHARGE D - Technical Basics	EMOB-TB

# Grid Operation

## Energy Management

Basics in Energy Management incl. hands-on training	SIP5-BSC
Advanced in Energy Management Strategies incl. hands-on	SIP5-ADV
Expert-Level Energy Management Mastery incl. hands-on	SIP5-EXP

## Switching Authorization

Switching Authorization	SWITCH-A
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## Microgrid

Microgrid Control - Overview	MG-OV
Microgrid Control - Engineering	MG-ENG
Microgrid - SICAM A8000 & SICAM SCC - Application	MG-SICA8

# Grid Planning & Simulation

## Power System Simulation

PSS®SINCAL - Basics	SINCAL-BAS
PSS®SINCAL - Protection Suite	SINCAL-PRO
PSS®SINCAL - Dynamics	SINCAL-DAE
PSS®SINCAL - Harmonic Analysis	SINCAL-HAR
PSS®SINCAL - Advanced for Distribution Companies	SINCAL-ADD

## Power System Operation

Power System Operation

## Engineering

Transmission & Distribution Networks - Basics Part 1	PE-TDNET1
Transmission & Distribution Networks - Basics Part 2	PE-TDNET2
Arc Flash Hazards - Analysis and Risk Assessment	PE-FLASH

## Grid Planning

Distribution Power Systems - Reliability Analysis	NET-RELIAB
Dynamic Network - Phenomena, Simulation and Analysis	NET-DYNAM
High and Low Voltage Installations - Earthing and Interference	NET-EARTH
Low Voltage Networks - Theory and Practical Applications	NET-LV
Neutral Grounding	NET-GROUND
Overtages and Insulation Coordination	NET-INSUL
Power Flow Analysis with Applications - Fundamentals	NET-POWER

# Grid Planning & Simulation

## Grid Planning

Power System Planning - Principles	NET-PRINC
Power Transmission & Distribution Systems - Load Flow and Short Circuit Calculation	NET-CALC
Distribution Network Automation - Basics	SAS-FUND
Transient Analysis Using EMTP/ATP	PSS-PMTP

## Renewables Integration

Distributed and Renewable Power Generation - Integration	REN-DIS
Wind Power - Network Integration	REN-WIND

## Building Technology

Building Automation and Energy Efficiency	BT-EFFIC
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## Business

Sustainable Business and Circular Economy - ConsulTrain™ Inspire Sustainable	SUST-BCR
Sustainable Business Transition to Circular Economy - ConsulTrain™ Economic	SUST-T
Sustainable Business and Net-Zero - ConsulTrain™ Inspire	SUST-BN
Sustainable Businesses Strategies for Net-Zero - ConsulTrain™ Economic	SUST-SBSN
Sustainable Business Transition to Net-Zero - ConsulTrain™ One	SUST-O

## Enablement

Sustainability Enablement - ConsulTrain™ Inspire	SUST-E
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## Awareness

Sustainability Awareness - ConsulTrain™ Inspire	SUST-A
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## Transformation

Sustainability Transformation - ConsulTrain™ Inspire	SUST-T
Sustainability Transformation - ConsulTrain™ Economic project	SUST-TE

## Maintenance

ConsulTrain™ Inspire: Maintenance planning for Sustainability	CONS-M
ConsulTrain™ Inspire: Maintenance optimization for Sustainability	CONS-MOP

## Distribution

Stress Management - Neuroresilience for Coping with critical Network Operation	SMG-DSO-STM
Stress Management - Neuro-enhancement for Performance Improvement in extreme Network Operation Situations	SMG-DSO-XTR
Energy Transition - Innovative Developments in the Energy Supply Word	SMG-DSO-INV
Metaverse - Digital Network Operation Management	SMG-DSO-MTV
Network Simulator - Practical Training of Network Disturbance Situations	SMG-DSO-PRX

## Switching Operation

Switching Authorization

For Switching Operation, Transmission, Protection and Substation Automation  
please con-tact us!

In addition to our classroom training,  
we also offer virtual and digital training.



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