SIEMENS

SI Buildings Academy
2025 Customer Training Directory

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COLOR AND GRAPHIC KEY

Instructor Led

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Web Based Training

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Welcome

Karen Petersen
Director, SI Buildings Academy

A Message to our Students

Training employees is the heartbeat of any thriving organization. It not only sharpens employee skills and knowledge but also boosts their confidence and job satisfaction. With effective training programs, employees are well-equipped to handle their responsibilities, adapt to new technologies, and stay ahead of industry trends. This translates to increased productivity, higher quality of work, and a more motivated workforce. Investing in employee training cultivates a culture of continuous improvement and innovation, propelling the organization towards its goals.

At Siemens, we're passionate about providing world-class training opportunities for our customers. Explore our **e-learning, virtual instructor-led,** and **in-person instructor-led** classes to find the perfect fit for your needs. Whether you prefer learning at a local Siemens office or right at your own site, we've got you covered.

Need something more tailored? No problem! We can customize our curriculum to align perfectly with your business goals. Your satisfaction is our highest priority, and we're always eager to hear your feedback.

Feel free to reach out to me at karen.petersen@siemens.com with any questions. Let's embark on this journey of *growth* and *excellence* together!

Karen Petersen

Our Instructors

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Building Automation

Andrew Bond
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Building Automation

Dan Browne
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Rob Laws
Building Automation

Zoe Magnetta
Building Automation

Paul Myers
Building Automation

Mike Samuel
Building Automation

Bob Stillman
Building Automation

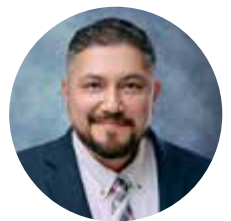**Amanda Randolph**
Security

Tony Schaefer
Security

Rob Hartman
Fire Safety

Jon Istre
Fire Safety

Cody Rand
Fire Safety

Junior Zapata
Fire Safety

Building Automation

HVAC Control Concepts

HVAC Control Concepts

Target Audience: For users who need an introductory understanding of HVAC control concepts.

Prerequisites: None

This web-based training course provides an introduction to the Desigo CC Management Station.

Topics:
- Mechanics of Heat Transfer
- Direct Digital Control (DDC) Concepts
- Air Handling Unit (AHU)
- Psychometric Chart
- Mechanical Heating and Cooling
- Desigo CC Workstion
- Sequence of Operations
- Construction Documentation

HVAC Control Concepts

HVC 1103

Target Audience: For anyone who needs an understanding of HVAC control concepts.

Prerequisites: None

Learn design characteristics and funcionality of HVAC systems and DDC concepts. Learn to read construction documents and analyze sequences of operations and the effects of changing loads in a building.

Learning Outcomes:

- Describe the functions of HVAC and how they are accomplished
- Define Direct Control Concepts for HVAC systems
- Explain BACnet fundamentals of Mechanical Heating and Mechanical Cooling
- Differentiate the characteristics of he types of Air Handling Units

- Identify the three networks used for Siemens Building Automation and the components that reside on those networks.
- Describe the funcionality of the Desigo CC control software and navigate its various features
- Analyze the sequence of operation for different control strategies and change system settings in response to system changes

Desigo CC Master System Administrator Training Path

01

ST 101 - Introduction to Desigo CC
This web-based training provides users with a more in-depth overview of the Desigo CC Management Station

02

ST 5091 - Desigo CC Overview *(Optional)*
This virtual instructor led training provides users with a more in-depth overview of the Desigo CC Management Station

03

ST 9203 *or* ST 9202 - Desigo CC Workstation I
For users of Desigo CC whose role is to perform day-to-day operations on a Desigo CC Managment Station.

04

ST 9254 *or* ST 9263 - Desigo CC Workstation II
For advanced users of Desigo CC whose role is to create and modify graphics, security groups and user accounts.

05

ST 9173 - Desigo CC Workstation III
For advanced users of Desigo CC whose role is to perform Configuration and troubleshooting using the Desigo CC Management Station.

06

ST 9293 - Desigo CC Master System Administrator
For advanced users of Desigo CC whose role is to perform configuration changes and custom modifications using the Desigo CC Management Station.

The Desigo CC Master System Administrator Training Path is designed to boost your professional development by providing essential knowledge for navigating the Desigo CC Management Station. The training consists of sequential classes that build on each other, culminating in a capstone scenario-based training. Instructor-led classes include knowledge and skills assessments to help you gauge your proficiency. Completing the courses in the recommended order ensures a comprehensive understanding. Upon finishing the entire path, you will achieve Master Operator status.

For experienced operators, a test-out is available for the ST 9203 - Desigo CC Workstation I class. The test-out is available at: www.siemens.com/esonline.

Introduction to Desigo CC   ST 101

Target Audience: For users who need an overview of the Desigo CC Management Station.

Prerequisites: ST 9203 or ST 9202- Desigo CC Workstation I

This web-based training course provides an introduction to the Desigo CC Management Station.

Topics:
- Platform Design
- Workflow
- Applications

Desigo CC Overview   ST 5091

Target Audience: For users who need an overview of the Desigo CC Management Station.

Prerequisites: ST 9203 or ST 9202- Desigo CC Workstation I

Learn Desigo CC basic knowledge on navigation of the System Manager, Event/Alarm Configuration, Graphics Editor Basics, Trending, Reports, Log Viewer, and Remote Notifications.

Learning Outcomes:
- Explain the Desigo CC GUI layout, panes, and tabs
- Navigate within the System Manager
- Navigate through the Desigo CC Graphic Viewer
- Recognize points that have been commanded to Operator Priority
- Open and run Desigo CC reports
- Manually collect trend data
- Explain and navigate through a BACnet schedule
- Create exceptions and add them to existing BACnet schedules
- Explain how Remote Notifications send messages to recipients

Desigo CC Workstation I   ST 9203 or ST 9202

Target Audience: For Users of Desigo CC whose role is to perform day-to-day operations on a Desigo CC Management Station.

Prerequisites: ST 9203 or ST 9202- Desigo CC Workstation I

Learn how to monitor and control your Desigo CC Management Station through hands-on guided exercises and discussions. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:
- Perform Event Management
- Explain the workflow of Desigo CC
- Navigate a Desigo CC graphic
- Command and release points from a graphic
- Manually collect trend data
- Utilize Log Viewer to locate histroical data
- Run, execute, modify, and save reports
- Initiate Remote Notification

Desigo CC Workstation II

Target Audience: For advanced users of Desigo CC whose role is to create and modify graphics, security groups and user accounts.

Prerequisites: ST 9203 or ST 9202- Desigo CC Workstation I

Building on Desigo CC Workstation I, you will learn how to build and modify system objects. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:

- Modify intrinsic alarm settings
- Create notification class objects
- Modify an existing schedule
- Build a system schedule from scratch
- Modify an existing graphic
- Use the evaluation editor
- Understand how Desigo CC uses the address book
- Create new users

- Configure security settings
- Use the log viewer to locate historical data
- Modify a report
- Create new scopes
- Use scopes to control user access to system objects
- Monitor an active remote notification
- Configure contact and escalation rules

Desigo CC Workstation III

ST 9173

Target Audience: For advanced users of Desigo CC whose role is to perform configuration changes and troubleshoot using the Desigo CC Management Station.

Prerequisites: Desigo CC Workstation I and Desigo CC Workstation II

Students will learn to configure and modify applications within Desigo CC to increase efficiency in monitoring and controlling building systems. Topics include Flex Client, Desigo CC graphics, macros and user-defined custom views.

Learning Outcomes:

- Demonstrate automatic and nonautomatic symbol association
- Create point properties on a graphic
- Create a new template graphic for a specific TEC application
- Configure and use Macros
- Perform database maintenance at the field panel, project and SQL server levels

- Use Desigo CC as a troubleshooting tool to identify an abonormal condition
- Log onto Flex Client and customize the Flex Client Window
- Use Flex Client to command points, create trends and peform even treatment

Desigo CC Master System Administrator

ST 9293

Target Audience: For advanced users of Desigo CC whose role is to perform configuration changes and custom modifications using the Desigo CC Management Station.

Prerequisites: Desigo CC Workstation I, Desigo CC Workstation II, and Desigo CC Workstation III

As the capstone to their Desigo CC training, this advanced course prepares students to become Desigo CC Master System Administrators. Students will gain expert-level skills to configure and customize applications and functionalities within Desigo CC. Through hands-on instruction and real-world scenarios, students will enhance their ability to efficiently monitor and control complex building systems.

Learning Outcomes:

- Design a symbol for a custom data point (Point Information Block Group)
- Implement event handling rules
- Add a treatment form to assisted treatment
- Set an organization mode based on a reaction or a schedule
- Change a text group (state text) of an organization mode

- Create custom alarm tables to implement specific event lamps
- Assign a custom alarm table to an object model
- Build an operator task to stop trending BACnet objects
- Utilize operator tasks to switch BACnet input objects to "Out of Service"

Additional Desigo CC Training

Desigo Optic for Operators

Target For building operators, maintenance personnel or others who need skills for day-to-day facility operations with a Desigo Optic System.

Prerequisites: None

Learn the basic operations of a Desigo Optic system using a pre-installed workstation configured with live controllers. Hands on activites will be used to enhance proficiency.

Learning Outcomes:

- Navigate Graphics
- Command points and equipment
- Identify how tags are used in Desigo Optic
- View historical trend data
- Maintain licenses for Desigo Optic

- View bLink Programming
- Basic Troubleshooting of bLine programming
- View and acknowledge alarams
- View System Schedules
- Add or remove system users

Insight to Desigo CC Transition

Target Audience: For advanced users of Insight that are responsible for the high-level oversite of setting up Deisgo CC after the facility has transitioned from Insight to Desigo CC.

Prerequisites: ST 6214 - Insight for APOGEE Systems

Learn the skills to take an active role in your transition from Insight to Desigo CC. We recommend this course to users who will be responsible for the transition from Insight to Desigo CC, as in this course you will learn best practices to ensure a smooth transition.

Learning Outcomes:

- Understand the Insight to Desigo CC transition workflow
- Configure system settings to manage users, security access and alarm behaviors
- Perform activies with Desigo CC applications to facilitate the transition and enhance the long-term operation of Desigo CC

Desigo CC Flex Client

Target Audience: For users who manage Flex Cilent in Desigo CC Management Station.

Prerequisites: Desigo CC Workstation I or equivalent

Learn to use Flex Client to manage operations and events in the Desigo CC Managment Station.

Learning Outcomes:

- Describe the different clients used by Desigo CC
- Log on to Flex Client
- Customize the Flex Client window
- Command points

- Perform Event Treatment
- Review and modify existing Schedule
- View and create Trends and Reports

Desigo CC Advanced Trending ST 9421

Target Audience: For users who need advanced knowledge on trending applications for Desigo CC Managment Station.

Prerequisites: Desigo CC Workstation I or equivalent

Learn the mulitple types of advanced trending that Desigo CC Management Station has the ability to create.

Learning Outcomes:

- Explain the Impact of Desigo CC System Objects in the Management Station
- Describe the functionality and purpose of trending and trend view definitions
- Add multiple trends to a Trend View to compare values and behaviors
- Utilize the Chart, Axis, Legend, and Series properties for a Trend View Definition
- Discuss the different types of trend methods: COV, Polled, and Triggered

- Create multiple Offline Trends using the Bulk Trend Editor
- Differentiate between BACnet Trending and APOGEE P2 Trending
- Understand the differences between Manual and Automatic Trend Data collection
- Use the Reaction Processor to enable or disable a trend
- Create a Conditional Trend based on specific triggers in the Management Station.

Desigo CC Advanced Graphics ST 9431

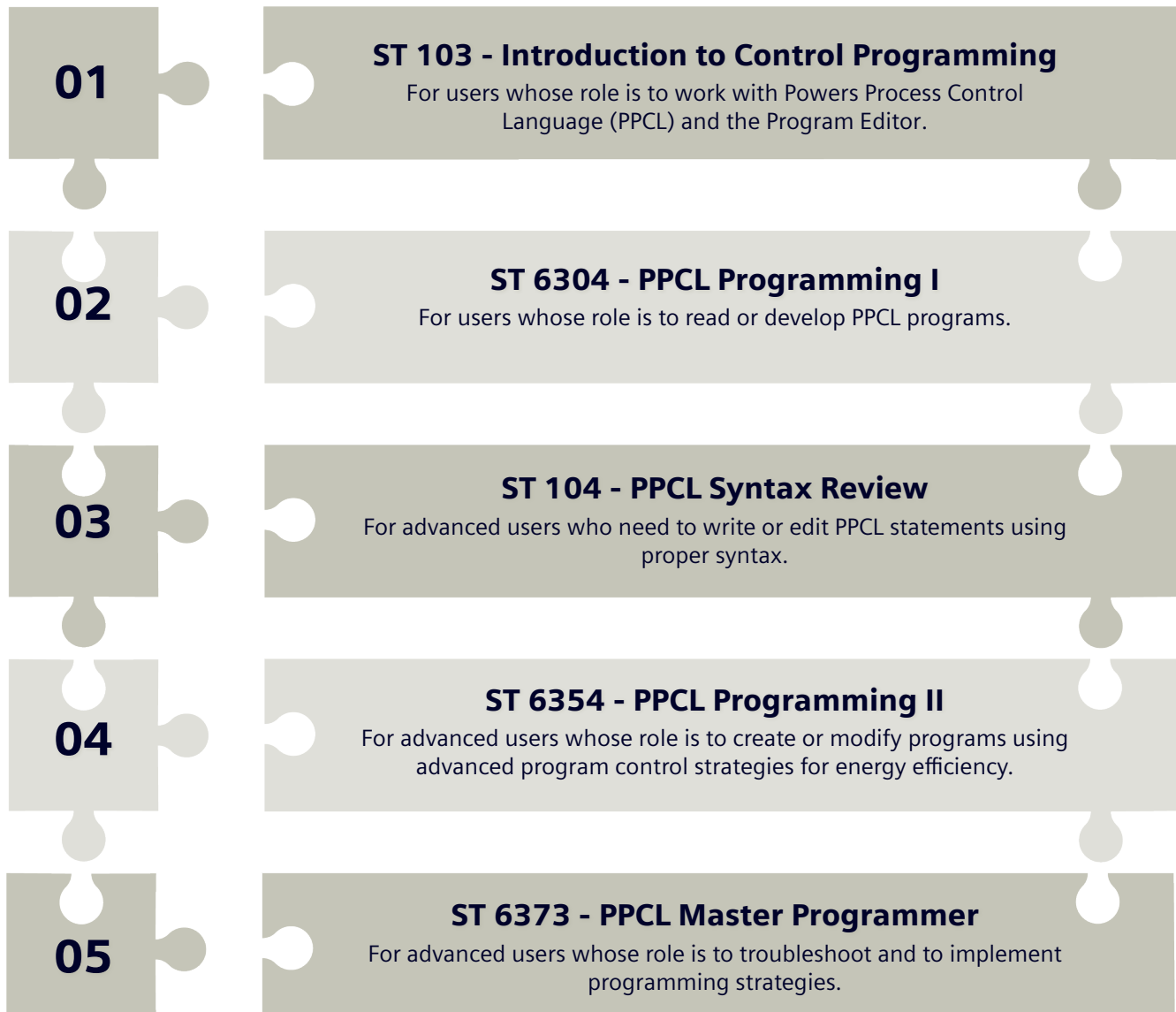Target Audience: For users who have the authority to modify Desigo CC Graphics.

Prerequisites: Desigo CC Workstation I or equivalent

Learn to modify Desigo CC Graphics.

Learning Outcomes:

- Navigate Edit mode in the Desigo CC Graphics application to modify existing symbols or text using substitutions.
- Manage layers by adding, locking/unlocking, and pasting elements from one layer to another.
- Replace existing symbols with new ones and ensure they are correctly assigned to the relevant data points.

- Identify symbols that have been grouped together and show the different ways to ungroup symbols for modification purposes.
- Explore the features and options available in the Evaluation Editor.
- Understand the significance of Navigational Targeting.
- Follow the necessary steps to modify a TEC or DXR Template.

PPCL Master Programmer Training Path

01

ST 103 - Introduction to Control Programming
For users whose role is to work with Powers Process Control Language (PPCL) and the Program Editor.

02

ST 6304 - PPCL Programming I
For users whose role is to read or develop PPCL programs.

03

ST 104 - PPCL Syntax Review
For advanced users who need to write or edit PPCL statements using proper syntax.

04

ST 6354 - PPCL Programming II
For advanced users whose role is to create or modify programs using advanced program control strategies for energy efficiency.

05

ST 6373 - PPCL Master Programmer
For advanced users whose role is to troubleshoot and to implement programming strategies.

The PPCL Training Path teaches Powers Process Control Language from basic to advanced concepts in simple steps. Classes build on each other, ending with a capstone scenario-based training. Completing the courses in the recommended order is advised. To achieve Master Programmer status, you must complete all required classes. This training path is ideal for facilities using PPCL and is not based on a management station.

Introduction to Control Programming   ST 103

Target Audience: For users whose role is to work with Powers Process Control Language (PPCL) and the Program Editor.

This web-based training course covers the flow and functionality of creating, editing and saving a building's control program.

Topics:

- Program Editor
- Buidling Automation PPCL Programs
- Applications

PPCL Programming I   ST 6304

Target Audience: For users whose role is to read or develop PPCL programs.

Prerequisites: Introduction to Control Programming

Learn to develop and modify a PPCL program. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:

- Create a decision table and flowchart for a sequence of operation
- Use the five-step problem solving process to write PPCL programs
- Use Datamate Advanced to access the Program Editor application

- Run PPCL reports using the Report Builder application
- Use various navigational tools in Program Editor
- Write a control LOOP to modulate equipment
- Use a dead band for cycling equipment on and off
- Write PPCL code to command FLN devices
- Use Report Builder to test and troubleshoot programs
- Use Desigo CC to test and evaluate PPCL programming

PPCL Syntax Review   ST 104

Target Audience: For advanced users who need to write or edit PPCL statements using proper syntax.

Prerequisites: PPCL Programming I

This web-based course provides information on PPCL syntax and structure.

Learning Outcomes:

- Use decision tables
- Identify and interpret flowchart symbols
- Define Resident Points

- Understand use of local variables
- Define Point Status Indicators and Logical Operators
- Write PPCL statements for a variety of basic control strategies using proper syntax

PPCL Programming II

ST 6354

Target Audience: For advanced users whose role is to create or modify programs using advanced program control strategies for energy efficiency.

Prerequisites: PPCL Programming I

Learn to build and optimize PPCL programs to improve building efficiency and incorporate staging and rotating of equipment. Students will use Datamate Advanced and Desigo CC to enter PPCL coding and evaluate the functionality of written PPCL code. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:

- Edit programs to rotate equipment based on a schedule or totalization
- Determine the proper number of devices required based on a calculated demand
- Modulate a set point of a loop statement to improve system performance
- Fine tune loop gains to ensure efficient equipment performance

- Incorporate Adaptive Control into an existing program
- Implement temperature and enthalpy economizer damper control strategies
- Design a program to control a variable volume air handler
- Implement Optimization (SSTO) to a scheduled work area and its equipment

PPCL Master Programmer

ST 6373

Target Audience: For advanced users whose role is to troubleshoot and to implement programming strategies.

Prerequisites: PPCL Programming I and PPCL Programming II

This course provides complex PPCL programming scenarios for you to read, troubleshoot and correct. Upon successful completion of the training path, students will earn Master Programmer status.

Learning Outcomes:

- Troubleshoot and correct an air handler control strategy
- Implement control strategies based on a sequence of operations
- Identify ways to improve existing control strategies
- Develop and test a chiller and secondary equipment staging and rotating program

- Discuss multiple options for staging and rotating the equipment
  - Daily
  - Weekly
  - Totalization
  - Fail Safe

Field Panel, FLN and DXR

Terminal Equipment Controller (TEC) Basics

Target Audience: For users whose role is to monitor, interpret and command Terminal Equipment Controllers (TECs) subpoint data.

Prerequisites: None

This web-based training course provides basic information about TECs.

Topics:

- TEC Basics
- TEC Components
- TEC Subpoints
- Datamate Advanced Operations Tool
- TEC Internal Logic

PXC-Modular Field Panel and TX-I/O

Target Audience: For users whose role is to work with the PXC-Modular Field Panel.

Prerequisites: None

This web-based training course explains the operation and features of the PXC-Modular Field Panel.

Topics:

- PXC Modular Series Product Overview
- APOGEE Automation Networking
- Principles of PXC Modular Operation
- TX-I/O Product Line

MBC-RBC Interactive Technical Manual

Target Audience: For users whose role requires technical knowledge of the MBC and RBC field panels.

Prerequisites: None

The web-based training course is an interactive technical manual that provides detailed information on the MBC and RBC field panels for quick reference on the job.

Topics:

- Enclosure Box
- Internal Components
- Open Processor

Field Panel and FLN Operations

ST 5504

Target Audience: For advanced users who need to write or edit PPCL statements using proper syntax.

Prerequisites: Terminal Equipment Controller (TEC) Basics

Learn to monitor, control and configure building automation systems locally from field panels and FLN devices using Datamate Advanced. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned. This course covers proprietary and BACnet protocols.

Learning Outcomes:

- Describe different protocols for Automation Level Networks (ALN) and Field Level Networks (FLN)
- Communicate with ALN and FLN devices
- Perform database backup and restoration locally for ALN and FLN devices
- Create and command points at the ALN level
- Command subpoints at the FLN level
- Identify the three types of subpoints in a Terminal Equipment Controller
- Display FLN subpoint information at the Field Panel
- Identity and describe the function and interaction at the Field Panel

DXR and ABT Site Operations I

ST 5553

Target Audience: For users whose role is to use the ABT Site software to communicate with DXR Controllers.

Prerequisites: None

Learn to connect ABT Site to the network and to discover, backup and restore a DXR controller. Review ABT Go functionality and how to load a DXR replacement. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:

- Use ABT Site to restore DXRs
- Use the web interact
- Use ABT Go to view alarms and overrides
- Connect ABT Site to the network
- Replace a failed DXR

DXR and ABT Site Operations II

ST 5554

Target Audience: For users whose role is to use the ABT Site software to communicate with DXR Controllers.

Prerequisites: DXR and ABT Site Operations I

Learn to use the software ABT Site to load and work with pre-existing projects as well as Pack & Go and Pack & Return files. The application for VAV with Hot Water will be reviewed using Application Help and Application Notes. Several DXR applications will be examined and the Application Functions will be explained. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:

- Identify the different DXR platforms and applications available
- Identify various KNX PL-Link devices and explain their uses
- Discuss the operation of the QMX7 room unit
- Use the ABT Site software and ABT SSA to communicate with DXRs
- Use ABT site to load a project and change DXR parameters
- Configure and download an application to a DXR
- Use ABT Site Application Help and Notes to understand Application Functions and analyze the sequence of operation for a VAV with Hot Water application
- Discuss the different types of Total Room Automation available for use with the DXR platform

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Insight

Insight Basics

Target Audience: For users who need an overview of the Insight Workstation.

Prerequisites: None

This web-based training course introduces common Insight applications.

Topics:

- Graphics
- Alarm Status
- Main Menu
- Report Viewer
- Panel Point Log Screen

Insight Scheduler

Target Audience: For users whose role is to control buildings using the Insight Scheduler application.

Prerequisites: None

This web-based training course teaches the terms and concepts of the scheduler application including; how to schedule an event and zone, how to populate and schedule a replacement day and how to override an event schedule.

Topics:

- Scheduler Navigation
- Creating a Schedule
- Modifying a Schedule
- Overriding a Schedule
- Adding Trend Collections, Reports, Events and Zones to a Schedule

Insight Trending

Target Audience: For users whose role is to place points into trend using the Insight Workstation.

Prerequisites: None

The web-based training course will demonstrate how to place a point into trend and examine trend data using multiple Insight Applications.

Topics:

- Trend Concepts
- Trend Types
- Trend Definitions
- Trend Collection Methods
- Trend Data Detail Report
- Scheduling Trend Reports

Remote Notification (RENO)   ST 110

Target Audience: For users whose role is to configure or operate the RENO feature within the Insight Workstation.

Prerequisites: None

The web-based training course addresses all aspects of the RENO feature in the Insight Workstation.

Topics:

- System Requirements and Settings
- Creating Contacts

Insight Fundamentals   ST 6201

Target Audience: For users of Insight who need fundamental skills for day-to-day operations.

Prerequisites: None

Learn the fundamental features of the Insight software, including the basic operations that personnel might utilize during their workday. Both APOGEE and BACnet concepts are included for the different operations. This online training is comprised of four 2-hour sessions held on two consecutive days.

Learning Outcomes:

- Create and save a report definition
- Schedule automatic reports
- Setup COV and Interval trends for APOGEE and BACnet points
- Describe Command Priorities for BACnet and APOGEE points
- Command points using the Commander
- Release APOGEE points using the Global Commander
- Command TEC subpoints using the Global Commander
- Schedule Zones, Events and BACnet objects

Insight for APOGEE Systems   ST 6214

Target Audience: For users of Insight whose role is to perform day-to-day operations on an Insight Workstation, as well as basic system setup and configuration.

Prerequisites: None

Learn to setup, monitor and control your Insight Workstation through hands-on guided exercises and discussions. A scenario-based skills assessment at the end of the course allows you to put into practice the knowledge you have learned.

Learning Outcomes:

- Configure the Insight Main Menu
- Describe the system architecture
- Create and modify points
- Command subpoints and change the command priorities
- Create, run and schedule reports
- Define trend definitions
- Collect and retrieve trended data using reports
- Create and schedule Zones and Events
- Create a new Event and Zone
- Describe features of Program Editor
- Utilize the System Activity Log

Critical Enviroment

Fume Hood and Laboratory Control Basics ST 109

Target Audience: For users whose role is to control laboratory environments and equipment.

Prerequisites: None

The web-based training course provides an overview of the basic components of a fume hood and the operations of the controllers.

Topics:

- Fume Hood Basics
- Fume Hood Controllers
- Operator Display Panel (ODP)
- Room Control
- Laboratory Controllers

Fume Hood and Laboratory Room Controls ST 6704

Target Audience: For users whose role is to monitor laboratory controls.

Prerequisites: None

Learn to monitor and control laboratory spaces using the Datamate Advanced (DMA) Software Package.

Learning Outcomes:

- Describe the function of the Fume Hood Controller (FHC) and sequence of operation
- Interpret the readings on an Operator Display Panel
- Describe Lab and Pressurized Room Controller with Off-Board Air Velocity Sensor (LCM-OAVS)
- Monitor and command sub-points
- Describe the sequence of operation for a Room Pressurization Control
- Describe the sequence of operation of the Siemens Room Condition Monitor (SRCM) and Room Pressure Monitor
- Use Datamate Advanced to monitor / command subpoints
- Identify and explain Fume Hood Emergency and Fail-Safe Operations

DXR Fume Hood and Laboratory Controls ST 5603

Target Audience: For Advanced users whose role is to use ABT Site to communicate with DXR Critical Environment Automation Stations.

Prerequisites: Fume Hood and Laboratory Controls and DXT and ABT Site Operations I or equivalent

Learn to locate, monitor, and interpret Critical Environment DXR parameters. ABT Site Software will be used through hands-on guided exercises and discussions/demonstrations. This class includes exercises using a fume hood in a laboratory control simulator.

Learning Outcomes:

- Identify standard lab room network configurations
- Locate and interpret DXR Application Parameters and download application configuration
- Perform a data point test and generate a data point commissioning and configuration report(s)
- Describe Lab Room Control Properties
- Explain fume hood Face Velocity, Face Area, and Exhaust Flow

Security

SiPass

SiPass Access Control

Target Audience: For users whose role is to operate and administer a SiPass Integrated system.

Prerequisites: None

This class is delivered online by an instructor in four, two-hour sessions over two consecutive days. Learn to navigate SiPass Integrated software and interface. The class familiarizes system operators and administrators with common system functionality, tips and tricks, and advanced system applications.

Learning Outcomes:

- Configure the Operation and Configuration Client
- View, edit and search cardholder records
- Customize the Audit Trail report
- Setup the SiPass alarm system
- Apply and modify all levels of access privileges
- Use Time Schedules and Holidays to automatically allow and deny access

- Administer SiPass Integrated Operator Accounts and Operator Groups
- Use Reporting to find historical information
- Perform automatic and manual system backups
- Create simple programming statements using Event Tasks
- Use Offline Access mode to enhance system reliability

SiPass Operations

Target Audience: For users whose role is to monitor a SiPass Integrated system.

Prerequisites: None

Learn to search, edit, and create cardholder records, as well as monitor and search audit trails. Time schedules and calendars are reviewed and monitored. Handling alarms is covered to ensure operators can appropriately respond to access emergencies and events. Students will also learn predefined and custom reports specifically targeting building and activities.

Learning Outcomes:

- Add and edit the cardholder records
- Work with the Audit Trail and create custom Audit Trails
- Create and edit Time Schedules and Holidays
- Handle SiPass alarms
- Create and edit Access Levels and Access Groups

- Assign access permissions to Workgroups
- Execute predefined reports
- Filter for specific data and create custom reports

Siveillance

Siveillance Video Operations
ST 4211

Target Audience: For day-to-day Operators with Siveillance Video as their VMS system.

Prerequisites: None

Learn Siveillance basic knowledge on common Operator applications. Students interact with an online instructor through demonstrations and then work independently through lab scenarios using the Customer Web Portal to log into the Siemens. This online training is comprised of two 6-hour sessions held on two consecutive days.

Learning Outcomes:

- Monitor live video, bookmark video clips, watch and search recorded video, lock video and export video
- Create views containing various video element

- Work with Maps and Camera Navigator
- Handle Alarms
- Log into and work with the Mobile Client

Siveillance Video Adminstration
ST 5603

Target Audience: Security Administrator of facilities with Siveillance Video as their VMS security system.

Prerequisites: None

Learn Siveillance Video administrative tasks for the maintenance of the Video security system and management of operator security. Students interact with an online instructor through demonstrations and then work independently through lab exercises by remotely connecting to Training PCs that are connected to live equipment. This online training is comprised of three 6-hour sessions plus one morning session held on four consecutive days.

Learning Outcomes:

- Import and configure cameras
- Create and apply storage strategies
- Create rules, time and notification profiles, and user-defined events
- Build views, add overlay buttons, & populate user's view groups

- Modify maps and Smart Maps
- Create users, roles, and assign security rights
- Configure the mobile service, assign sign-in rights, & use web client
- Perform system maintenance tasks

Fire Safety

Desigo CC Fire Safety Management Station

Introduction to Desigo CC Fire Safety Management Station

FIS 411

Target Audience: For users whose role requires an understanding of the Desigo CC Fire Safety Management Station.

Prerequisites: None

This web-based course introduces the Desigo CC Fire Safety Management Station. You will learn the features of the management station and the benefits of using Desigo CC to control a Desigo or Desigo Fire Safety Modular system.

Topics:

- Key Features of Desigo CC
- Characteristics of the Management Station
- Desigo CC Workflow

Desigo CC Fire Safety Manangement Station

FIS 4114

Target Audience: For users whose role is to engineer, install or maintain a Desigo CC Management Station.

Prerequisites: Introduction to Desigo CC Fire Safety Management Station

Learn to monitor and control a Desigo or Desigo Fire Safety Modular system using the Desigo CC Fire Safety Management Station.

Learning Outcomes:

- Identify Desigo CC system types
- Walk through the steps for installing DCC software.
- Import a Desigo Compact panel database into the DCC server.
- Interact with the user interface to treat system events using Fast and Investigative Treatment.
- Use a graphic template to import and modify images and floor plans.

- Design Desigo CC Scopes, Security Groups and Users Accounts.
- Create custom Macros and apply them to graphics.
- Back up the system and history database.
- Modify reports and apply them to system graphics
- Licensing requirements and activation processes.

Desigo Fire Safety Modular

01

FIS 100 - Fire Detection and Alarm System Basics
For new fire safety technicians and those wish to gain a greater understanding of the basics of fire detection and alarm systems.

02

FIS 251 - Desigo Fire Safety Modular and Desigo Fire Safety Modular Voice Fire Panels and Components
For users whose role requires an understanding of the Desigo Fire Safety Modular and the Desigo Fire Safety Modular Voice fire panels.

03

FIS 2314R *or* FIS 2332 - Desigo Fire Safety Modular - Installation, Operation and Maintenance
For users whose role is to engineer, install, test or maintain a Desigo Fire Safety Modular System.

04

FIS 2342 - ZEUS - Desigo Modular Programming Tool
For users whose role is to administer or program a Desigo Fire Safety Modular system.

05

FIS 2324R *or* FIS 2352 - Desigo Fire Safety Modular Voice - Installation, Operation and Maintenance
For users whose role is to engineer, install, test, program or maintain a Desigo Fire Safety Modular Voice system.

Fire Detection and Alarm System Basics

FIS 100

Target Audience: For new fire safety technicians and those wish to gain a greater understanding of the basics of fire detection and alarm systems.

Prerequisites: None

This web-based training explains the basic concepts of fire detection and alarm systems.

Topics:

- System Basics
- System Inputs
- System Outputs
- System Configurations
- Auxiliary Equipment and Systems

Desigo Fire Safety Modular and Desigo Fire Safety Modular Voice Fire Panels and Components

FIS 251

Target Audience: For users whose role requires an understanding of the Desigo Fire Safety Modular and the Desigo Fire Safety Modular Voice fire panels.

Prerequisites: None

This web-based training introduces the field devices and components of the Desigo Fire Safety Modular and Desigo Fire Safety Modular Voice fire safety systems.

Topics:

- Fire Alarm System Selection
- Desigo Fire Safety Modular Fire Alarm System Operations
- Desigo Fire Safety Modular Field Devices
- Desigo Fire Safety Modular Core System Components
- Desigo Fire Safety Modular System Components and Options

Desigo Fire Safety Modular - Installation, Operation and Maintenance

FIS 2314R or FIS 2332

Target Audience: For users whose role is to engineer, install, test or maintain a Desigo Fire Safety Modular System.

Prerequisites:Fire Detection and Alarm System Basics and Desigo Fire Safety Modular and Desigo Fire Safety Modular Voice Fire Panels and Components

Learn to install, operate, maintain, test, troubleshoot and wire a Desigo Fire Safety Modular fire alarm system.

Learning Outcomes:

- Update the panel and module firmware including the MLC
- Create and install maps and icons
- Silence and reset the panel
- Install field devices

- Add devices to the database using ZEUS
- View and change detector sensitivities
- Enable and disable points
- Test, inspect and troubleshoot a Desigo Fire Safety Modular System

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ZEUS - Desigo Fire Safety Modular Programming Tool   FIS 2342

Target Audience: For users whose role is to administer or program a Desigo Fire Safety Modular system.

Prerequisites: Desigo Fire Safety Modular - Installation, Operation and Maintenance

This class is delivered online by an instructor in four sessions over four consecutive days. Learn how to design, modify, test or otherwise use the Desigo Fire Safety Modular system configuration tool (ZEUS).

Learning Outcomes:

- Review the Zeus Tool layouts for physical, geographic, control, and function view
- Discuss programming basics, including the proper use of an OR, AND, NOT, and ANY Ns functions
- Discuss programming to include the proper use of D-Latch, Toggling functions, and Start Timers

- Program Delayed Start Timers, Restart Timers, and Delayed Restart Timers
- Use the geographic view to group input devices

Desigo Fire Safety Modular Voice - Installation, Operation and Maintenance   FIS 2324R or FIS 2352

Target Audience: For users whose role is to engineer, install, test, program or maintain a Desigo Fire Safety Modular Voice system.

Prerequisites: Desigo Fire Safety Modular - Installation, Operation and Maintenance

Knowledge of the Desigo ZEUS software is highly recommended.

Learn to install, operate, maintain and program the Desigo Fire Safety Modular Voice system.

Learning Outcomes:

- Understand the basic principles of a digital voice system
- Understand the concept of an 8-channel operation
- Design a voice system with remote enclosures
- Navigate through the Desigo ZEUS programming tool
- Program and network a remote microphone in REMBOX-4 enclosure with access control

- Wire and program a voice panel for Distributed, Bulk and Single Channel amplification
- Operate a Desigo Fire Safety Modular Voice panel in emergency and maintenance situations

Desigo Fire Safety Modular Voice Global and Networking   FIS 2373

Target Audience: For users who design Desigo Modular networks.

Prerequisites: Desigo Fire Safety Modular - Installation, Operation and Maintenance

Learn to design a Desigo Modular Network configured utilizing Hnet, Dnet, Xnet, and Global Ring.

Learning Outcomes:

- Build and specifiy the following types of Desigo Modular networked systems:
- Engineer Hnet, non-voice systems based on customer specifications
- Design Xnet non-voice networks based on customer specifications

- Hnet Voice system design single node voice with voice transponders
- Xnet Voice/Non-voice system design
- Global voice ring system design

Desigo Life Safety

01

FIS 900 - Desigo Life Safety UL Overview

For users whose role requires an understanding of the Desigo Life Safety UL system.

02

FIS 9104R *or* FIS 9132 - Desigo Life Safety UL 50/250/500 PT

Target Audience: For users whose role is to engineer, install or maintain a Desigo Life Safety UL 50/250/500-point panel system.

03

FIS 9142 - Desigo Life Safety 250/500 PT Programming

For users whose role is to program a Desigo Life Safety system.

04

FIS 9124R *or* FIS 9152 - Desigo Life Safety UL Voice

For users whose role is to engineer, install, maintain or program a Desigo Life Safety Voice system.

Desigo Life Safety UL System Overview   FIS 900

Target Audience: For users whose role requires an understanding of the Desigo Life Safety UL system.

Prerequisites: None

This course is an introduction to the Desigo Life Safety UL system. Students will learn about the Desigo Life Safety UL portfolio and the devices available.

Topics:

- What is Desigo
- System Overview
- FCnet Stations
- FDnet Peripherals
- Tools
- Documentation Available

Desigo Life Safety UL 50/250/500 PT   FIS 9104R or FIS 9132

Target Audience: For users whose role is to engineer, install or maintain a Desigo Life Safety UL 50/250/500-point panel system.

Prerequisites: None

Learn to install, operate, maintain, test, troubleshoot and wire a Desigo Life Safety system using a 50/250/500-point panel.

Learning Outcomes:

- Acknowledge Alarms, Supervisories, Troubles and Securities
- Install field devices
- Enable and disable points

- Create a Desigo Life Safety configuration
- Create detection zones
- Troubleshoot a Desigo Life Safety system

Desigo Life Safety UL 250/500 PT Programming   FIS 9142

Target Audience: For users whose role is to program a Desigo Life Safety system.

Prerequisites: Desigo Life Safety UL 50/250/500 PT

This class is delivered online by an instructor in four sessions on four consecutive days. Learn to program a Desigo Compact 250/500 fire alarm panels.

Learning Outcomes:

- Identify the purpose of the Lifecycle Responsibility Concept
- Download and license the Desigo Compact Engineering Tool
- Describe the Engineering Tool layout to include the Hardware Tree, Detection Tree, and the Control Tree
- Discuss programming basics, including the proper use of an OR, AND, NOT, and ANY Ns functions

- Use the Boolean programming formulas to build control functions, including timer starts and delayed timers
- Group Zones in control functions
- Use Prioritized and Universal NAC Controls for various outputs
- Use Alarm Verification Concept (AVC)

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Desigo Life Safety UL Voice FIS 9124R or FIS 9152

Target Audience: For users whose role is to engineer, install, maintain or program a Desigo Life Safety Voice system.

Prerequisites: Desigo Life Safety UL 50/250/500 PT

This class is delivered online by an instructor in four sessions on four consecutive days. Learn to install, operate, maintain, test, trouble-shoot and wire a Desigo Life Safety Voice system using a 250/500-point panel.

Learning Outcomes:

- Identify the hardware components required to construct a Desigo Voice system
- Design Voice programs using the Desigo Engineering Tool
- Commission and test a stand-alone Desigo Voice system

- Operate a voice-command station
- Build, program, and commission a Desigo Voice network including a remote voice command station

Desigo Life Safety UL Voice Global and Networking FIS 9172

Target Audience: For users whose role is to program a Desigo Life Safety system.

Prerequisites: Desigo Life Safety UL 50/250/500 PT

This class is delivered online by an instructor in two sessions on two consecutive days. Learn to design a Desigo Life Safety Compact Fire Panel Network System.

Learning Outcomes:

- Recongnize the required components for the SAFEDLINK network
- Describe the differences of a Class A and Class B network configuration
- Explain Visibility and IP address requirements in the SAFEDLINK network
- Using the engineering Tool, design a functional three-panel system verify it for functionality

- Identify the required components for the FVnet network
- Demonstrate the differences in the FVnet communication protocols: (1) Visibility, (2) CAN Bus, (3) Ethernet, and (4) Single Mode (SM) and Multi-mode (MM) Fiber
- Design a Voice panel FVnet
- Create a mixed node network of non-voice and voice panels on a FVnet

MXL Migration

MXL and MXLV Fire Panel and Components FIS 150

Target Audience: For users whose role requires an understanding of the MXL or MXL Voice Fire Safety system.

Prerequisites: None

This web-based training introduces field devices and components of the MXL and MXLV fire safety systems.

Topics:

- Fire Alarm System Selection
- MXL Fire Alarm System Operation
- MXL Field Devices
- MXL Core System Components
- MXL System Components and Options

MXL Migration FIS 1213

Target Audience: For users whose role is to engineer, install or maintain a Desigo Life Safety UL 50/250/500-point panel system.

Prerequisites: None

Learn to identify the hardware within the existing MXL-IQ or MXLV fire panels and its equivalent in the FS20 and Desigo Modular fire panels.

Learning Outcomes:

- Discuss the Basic hardware of the MXL-IQ and explore its database within CSGM
- Convert the MXL-IQ database (.MXL) to the FS20 Engineering Tool (.FSC)
- Inspect the Basic hardware of the STD MXL and explore its database within CSGM
- Investigate the Range of Devices within CSGM digital logic
- Navigate the hardware of an MXLV and explore its database within CSGM
- Explore the Speaker Function in distributed and bulk within the CSGM digital logic
- Migrate the CSGM database (.XML) to Zeus Programming Tool (.XML)
- Transcribe all Digital logic from CSGM to a graphical representation

Notes

Siemens Training Enrollment Form

Please email the completed form to SI Buildings Academy at si.academy.us@siemens.com.
We will notify you within three business days after we receive your enrollment form.

STUDENT INFORMATION	*Required Fields

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