

Overview Courses

As revisions to Insight software are released, training for new users and existing users will be offered. Please contact your local Siemens office for more information.

Insight 3.10 for New Users (4-6 hours)

159-152 (Student Guide); 159-151 (Instructor Guide)

Learn how to use Insight 3.9 to monitor and control a facility.

Topic:	You will learn to:
Reports	<ul style="list-style-type: none"> Identify the components of a Point Log. Run various Point Log reports.
Commander	<ul style="list-style-type: none"> Command points and return them to system control.
Alarm Management	<ul style="list-style-type: none"> Acknowledge and erase alarms. View messages for points in alarm.
Scheduler	<ul style="list-style-type: none"> Define zones and events. Discuss scheduling events and overriding schedules.
Point Group Editor	<ul style="list-style-type: none"> Organize points into groups.
Trending	<ul style="list-style-type: none"> Determine when to trend a point by time and when to trend a point by change-of-value (COV).
Graphics	<ul style="list-style-type: none"> Display and navigate dynamic graphics.

Participants: Building personnel who need operating skills with Insight systems.

Prerequisite: None

New Features of Insight 3.10 for Existing 3.9 or 3.9.1 Users (4-6 hours)

159-154 (Student Guide); 159-153 (Instructor Guide)

Learn about the new features and capabilities of Insight 3.10.

Topic:	You will learn to:
Enhancements	<ul style="list-style-type: none"> List the new features of Insight 3.9.1 and 3.10.
Main Menu Icons	<ul style="list-style-type: none"> Identify the new Main Menu Icons.
Hardware Support	<ul style="list-style-type: none"> Use Insight to control the PXC36. Add a PXC compact on P1 to the FLN trunk. Configure an HOA on a PXC16 or 24.
Event Enrollment	<ul style="list-style-type: none"> Configure and work with the BACnet Event Enrollment object. Build Event Enrollment objects. Receive Event Enrollment notifications.
SMTP Enhancements	<ul style="list-style-type: none"> Provide additional information when configuring SMTP server settings for reports and RENO.
Graphics	<ul style="list-style-type: none"> Display priority information for graphical elements. Configure and use enhanced graphics objects such as 3D charts and graphs.
User Accounts	<ul style="list-style-type: none"> Apply default command priorities to user accounts.

Participants: Existing Insight 3.9 or 3.9.1 users who are upgrading to Insight 3.10.

Prerequisite: Information is presented in a manner that assumes students are familiar with the day-to-day operation of an Insight 3.9 or 3.9.1 system.



Field Panel GO (4-6 hours)

159-135 (Student Guide); 159-136 (Instructor Guide)

Learn about the new features and capabilities of Field Panel GO.

Topic:	You will learn to:
Alarms	<ul style="list-style-type: none"> Acknowledge alarm states.
Graphics	<ul style="list-style-type: none"> Configure the default graphic. View a list of available graphics. Command analog points from a graphic.
Point Commander	<ul style="list-style-type: none"> Command point values and priorities. Command a point to alarm.
Scheduler	<ul style="list-style-type: none"> View and modify properties of a mode schedule. Override a mode schedule on a selected date.
Trend Data Report	<ul style="list-style-type: none"> Generate and print a Trend Data report.
Point Log Report	<ul style="list-style-type: none"> Generate and print a Point Log report.

Participants: Building personnel who need operating skills with Field Panel GO systems.

Prerequisite: None

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Communicating with Your APOGEE Field Panel (4-6 hours)

159-074 (Student Guide); 159-075 (Instructor Guide)

Learn how to use an operator interface terminal to communicate with an APOGEE Field Panel.

Topic:	You will learn to:
Operating	<ul style="list-style-type: none"> Log on and off a system.
Monitoring	<ul style="list-style-type: none"> Define the components of a point log. Run a point log for one point or a group of points using wildcards. Pause, resume and cancel the scrolling of reports. Add points to Point Monitor and remove points from Point Monitor. Run a Point Totalization Report.
Performing Diagnostics and Troubleshooting	<ul style="list-style-type: none"> Determine when to trend a point by time and when to trend a point by change-of-value (COV). Add points to trend and remove points from trend.
Points	<ul style="list-style-type: none"> Command points. Return commanded points to system control.

Participants: Building personnel who need to communicate with an APOGEE Field Panel.

Prerequisite: None



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APOGEE Terminal Equipment Controllers (4-6 hours)

159-103 (Student Guide); 159-104 (Instructor Guide)

Learn how to use APOGEE Terminal Equipment Controllers (TECs) for effective building equipment management.

Topic:	You will learn to:
Identifying TECs	<ul style="list-style-type: none"> • Make a sketch of some or all of the Field Level Networks (FLNs) at your facility.
TECs on the FLN	<ul style="list-style-type: none"> • Explain the purpose of TECs. • Describe how TECs control building equipment.
Controller Subpoints	<ul style="list-style-type: none"> • Explain the difference between logical points and subpoints.
Unbundling Subpoints	<ul style="list-style-type: none"> • Explain why TEC subpoints are unbundled in a network.
Communicating	<ul style="list-style-type: none"> • Communicate with a TEC from a room thermostat and through a field panel or Insight.

Participants: Building personnel who need basic operating skills with APOGEE TECs.

Prerequisite: None



Introduction to Pneumatic Controls (4-6 hours)

159-175 (Student Guide); 159-176 (Instructor Guide)

Learn about pneumatic components and how they work together in a system.

Topic:	You will learn to:
Components	<ul style="list-style-type: none"> • Define pneumatic control. • Identify the major components of a pneumatic system from air compressor to controlled devices. • Describe how pneumatic devices can interact with DDC control. • Identify pneumatic components and explain their function. • Explain direct acting and reverse acting, and normally open and normally closed. • Describe the differences in the response of a direct acting and reverse acting thermostat.
Simple Control Strategies	<ul style="list-style-type: none"> • Describe a closed control loop. • Describe the operation and function of components in a simple control strategy that uses pneumatic controls.

Participants: Building personnel who work with pneumatic systems and components.

Prerequisite: None

Introduction to Heating, Ventilation, and Air Conditioning (HVAC) Basics (4-6 hours)

159-091 (Student Guide); 159-092 (Instructor Guide)

Learn basic HVAC concepts and how they apply to buildings.

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Topic:	You will learn to:
Thermodynamic Calculations	<ul style="list-style-type: none"> • Calculate basic CFM/BTU requirements.
Heating and Cooling Systems	<ul style="list-style-type: none"> • Identify and describe major systems at your site for heating and cooling.
Warm and Cold Air Production and Distribution	<ul style="list-style-type: none"> • Trace the path of warm and cold air from its source to its final distribution into rooms and other spaces. • Describe the specific equipment at your site for heating and cooling. • Describe the type of terminal equipment at your site, if any, for the distribution of warm and cold air.
Room and Building Pressurization	<ul style="list-style-type: none"> • Discuss why pressurization in an entire building and in specific spaces is important. • Identify any special-needs areas you have such as: labs, computer rooms, process areas, etc.
Filtration	<ul style="list-style-type: none"> • Explain how air is filtered at your facility.
Mechanical Equipment Terminal Equipment	<ul style="list-style-type: none"> • Identify mechanical and terminal equipment at your facility.

Participants: Building personnel who need a basic introduction to HVAC concepts as applied to their building.

Prerequisite: None



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Fume Hood Hardware and Controls (4-6 hours)

159-045 (Student Guide); 159-046 (Instructor Guide)

Learn how to identify types of chemical fume hoods, their components and their purpose.

Topic:	You will learn to:
Fume Hood Identification	<ul style="list-style-type: none"> Define the purpose of a fume hood. Identify the components of a fume hood and the different sash types.
Fume Hood Exhaust Terminal (FHET)	<ul style="list-style-type: none"> Describe the function of the FHET. Identify the components of the FHET.
Fume Hood Controller (FHC)	<ul style="list-style-type: none"> Describe the function of the FHC.
Operator Display Panel (ODP)	<ul style="list-style-type: none"> Describe the function of the ODP. Identify the components of the ODP. Interpret the LEDs, display and alarms of the ODP.
Fume Hood Monitor (FHM)	<ul style="list-style-type: none"> Describe the function of the FHM. Interpret the LEDs, display and alarms of the FHM.
Laboratory Room Controller (LRC)	<ul style="list-style-type: none"> Describe the function of the LRC. Identify the components of the LRC. Describe the function of the fume hood flow module.
Differential Pressure Monitor (DPM)	<ul style="list-style-type: none"> Describe the function of the DPM.
Datamate Base Software	<ul style="list-style-type: none"> Logon to Datamate Base. Run reports using Datamate Base. Override point values.

Participants: Building engineers, building administrators or anyone responsible for maintaining and troubleshooting fume hoods.

Prerequisite: None

Fume Hood Safety (4-6 hours)

159-047 (Student Guide); 159-048 (Instructor Guide)

Learn how fume hoods function and basic safety guidelines.

Topic:	You will learn to:
Fume Hood Components	<ul style="list-style-type: none"> Describe the purpose of a fume hood. Identify fume hood components.
Safety Guidelines	<ul style="list-style-type: none"> Identify procedures for safe fume hood operation.
Operator Display Panel and Monitor Components	<ul style="list-style-type: none"> Interpret information from the Operator Display Panel and the Fume Hood Monitor.

Participants: Intended for laboratory personnel who operate fume hoods.

Prerequisite: None