



Turn to the Experts.

Commercial HVAC Division  
205 S. Puente Street Brea, CA 92821  
(714) 578-5100  
www.siglercommercial.com



## 2017 CONTINUING EDUCATION PROGRAM

This monthly educational meeting is designed to enhance the owner's understanding of Carrier Systems and the HVAC industry. This is achieved by training sessions with subjects suggested by the students. The objectives will be accomplished by using a combination of class discussion, hands-on, and visual demonstration.

Location: 205 South Puente Street, Brea, CA 92821		
Time: 7:00 am – 10:00 am		
	Tuesday, January 10, 2017	i-Vu: Schedules, Trends, & Maintenance
	Tuesday, March 14, 2017	VFD Operation and Troubleshooting
	Tuesday, May 9, 2017	RTU-Open Equipment Review of Rooftop Controller
	Tuesday, July 11, 2017	48_50 Series RTU Staged Air Volume System
	Tuesday, September 12, 2017	Carrier CCN Controls Overview
	Tuesday, November 14, 2017	Economizer Retrofit – Installation and Setup

Location: 14751 Meridian Parkway, Riverside, CA 92508		
Time: 7:00 am – 10:00 am		
	Thursday, January 12, 2017	i-Vu: Schedules, Trends, & Maintenance
	Thursday, March 16, 2017	VFD Operation and Troubleshooting
	Thursday, May 11, 2017	RTU-Open Equipment Review of Rooftop Controller
	Thursday, July 13, 2017	48_50 Series RTU Staged Air Volume System
	Thursday, September 14, 2017	Carrier CCN Controls Overview
	Thursday, November 16, 2017	Economizer Retrofit – Installation and Setup

Location: 804 A Rancheros Dr., San Marcos, CA 92069		
Time: 7:00 am – 10:00 am		
	Tuesday, January 17, 2017	i-Vu: Schedules, Trends, & Maintenance
	Tuesday, March 21, 2017	VFD Operation and Troubleshooting
	Tuesday, May 16, 2017	RTU-Open Equipment Review of Rooftop Controller
	Tuesday, July 18, 2017	48_50 Series RTU Staged Air Volume System
	Tuesday, September 19, 2017	Carrier CCN Controls Overview
	Tuesday, November 21, 2017	Economizer Retrofit – Installation and Setup

Location: 20680 Nordhoff Street, Chatsworth, CA 91311		
Time: 7:00 am – 10:00 am		
	Tuesday, January 24, 2017	i-Vu: Schedules, Trends, & Maintenance
	Tuesday, March 28, 2017	VFD Operation and Troubleshooting
	Tuesday, May 23, 2017	RTU-Open Equipment Review of Rooftop Controller
	Tuesday, July 25, 2017	48_50 Series RTU Staged Air Volume System
	Tuesday, September 26, 2017	Carrier CCN Controls Overview
	Tuesday, November 28, 2017	Economizer Retrofit – Installation and Setup

To register please visit our website [www.siglercommercial.com](http://www.siglercommercial.com)  
For information and questions contact Joseph Morales [jmorales@siglers.com](mailto:jmorales@siglers.com)



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### I-Vu 6.5 Schedules, Trends and Maintenance (January)

This training session is designed enhance the owner's ability to manage their systems and sites. This is accomplished by strengthening the Carrier I-Vu web-based interface user's knowledge of schedules and trends. This course provides the opportunity for technicians to operate the I-Vu user interface using a web browser. The objectives will be accomplished using class discussion and a series of hands on class exercises.

**Objectives:**

- *Defining hierarchical schedules at the site, area, and controller levels*
- *Set up and modify I-Vu schedules*
- *Learn how to manage override times within weekly schedules*
- *Create and define different holiday option schedules*
- *Learn how to create and manage different scheduling groups*
- *Set up and generate management reports for schedules.*
- *Defining trending options within I-Vu*
- *Create standard single and comparison trend graphs*
- *Learning how to navigate within the trend graphical page*
- *Modifying the trends sampling rate within a point*
- *Learn how to backup and restore a database*
- *Learn how to rename devices and areas*
- *Viewing audit logs*
- *Adding additional user logins*
- *Learn different manual commands*
- *Introduce the new Carrier CONNECTSTAT and its capabilities*

**Audience:**

Individuals involved in the operation of Carrier controls with i-Vu. Individuals include: Controls/HVAC technicians and Energy Managers. Owners seeking more in-depth understanding should also attend.

**Prerequisites:**

Those attending should have a basic knowledge of Energy Management Systems.

**Computer Requirements:**

Bring a computer with WiFi and administration rights. Computers must have Windows 7 or 8 and Internet Explorer 8, 9 or 10. iPad's and Surface Pros are other options. (Please ensure computer is tested before attending class)

### Rooftop Unit VFD Operation & Troubleshooting (March)

This training session is designed to enhance the owner's knowledge of the Operation and Troubleshooting of Variable Frequency Drives used in Carrier Packaged RTU HVAC Equipment.

**Objectives:**

- *Review of Indoor Fan Motor VFD's used in Carrier RTU VAV/SAV units*
- *Review of Carrier's SAV/VAV VFD wiring and programming parameters*
- *Set-up and commissioning of IDF VFD's*
- *Review of Modulating Power Exhaust VFD*
- *VFD Troubleshooting Tips*
- *Introduce the new Carrier CONNECTSTAT and its capabilities*

**Audience:**

Individuals involved in the operation, maintenance and service of HVAC Equipment. Individuals include: HVAC Service and Maintenance technicians. Owners seeking more in-depth understanding should also attend.

**Prerequisites:**

Those attending should have a basic knowledge of Packaged Rooftop Air Conditioning Units.

**Computer Requirements: None**

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## 2017 CONTINUING EDUCATION PROGRAM

### **RTU-Open: Factory Installed Integrated Multiprotocol Rooftop Controller (May)**

This training session is designed to enhance the owner's knowledge of the RTU OPEN integrated component of Carrier rooftop units. Factory equipped or Field installed accessory. The objectives will be accomplished by class discussion.

**Objectives:**

- Introduction to RTU Open controller. Features and benefits-stand alone or integrated to a BAS
- Discussion of controller Diagnostic/Display options
- Equipment/System Touch or Field Assistant software interface
- Current Equipment or System touchscreen displays
- RTU OPEN Wiring, Sensors and I/O points
- Controller menu navigation
- Unit Configuration and Sequence of Operation
- Controller troubleshooting
- Introduce the new Carrier CONNECTSTAT and its capabilities

**Audience:**

Individuals involved in the operation, maintenance and service of HVAC Equipment.  
Individuals include: HVAC Service and Maintenance technicians. Owners seeking more in-depth understanding should also attend.

**Prerequisites:**

Those attending should have a basic knowledge of RTU and Split System HVAC

**Computer Requirements: None**

### **48 50 Series RTU Staged Air Volume SAV System (July)**

This training session is designed to enhance the owner's knowledge of Carrier's Staged Air Volume SAV™ System employed on HVAC rooftop units. An Introduction and review of the Systems features will be discussed. The objectives will be accomplished by class discussion.

**Objectives:**

- Review of SAV™ concept
- SAV™ implementation with Electro-Mechanical, ComfortLink™ and RTU-OPEN unit controls
- Direct drive ECM motors, ABB VFD use with Belt drive motors
- Economizer-X: Jade™ 2-speed economizer controller review
- Troubleshooting tips
- Introduce the new Carrier CONNECTSTAT and its capabilities

**Audience:**

Individuals involved in the operation, maintenance and service of HVAC Equipment.  
Individuals include: Controls/HVAC technicians and Energy Managers. Owners seeking more in-depth understanding should also attend.

**Prerequisites:**

Those attending should have a basic knowledge of Packaged Rooftop and Split System Air Conditioning Units.

**Computer Requirements: None**

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### Carrier CCN Controls Overview (September)

This training session is designed to enhance the owner's knowledge of the CCN communication bus and Network Service Tool V Utilities. The course provides the student a basic understanding on how to configure, service and troubleshoot Carrier CCN DDC controllers. The objectives will be accomplished using class discussion a series of hands on class exercises.

**Objectives:**

- Explain various CCN controllers and their applications
- Understand the CCN network architecture and guidelines
- Defining broadcasters and acknowledgers
- Upgrade Service Tool V firmware to latest version
- Learn how to navigate to different configuration and service tables
- Replace a failed controller and download previous backed up programs
- Learn how to troubleshoot and identify problems
- Discuss upgrade opportunities, i-Vu 6.5, & Multi-CCN
- Introduce the new Carrier CONNECTSTAT and its capabilities

**Audience:**

Individuals involved in the operation and service of the Carrier Comfort Network. Individuals include: Controls/HVAC technicians and Energy Managers. Owners seeking more in-depth understanding should also attend.

**Prerequisites:**

Those attending should have a basic knowledge of Energy Management Systems.

**Computer Requirements:**

Bring a computer with administration rights. Computers must have Windows 7, 8, or 10. Students must bring in their own **Service Tool V kit**. (Please ensure computer is tested before attending class)

### Economizer Retrofit: Installation and Set Up of Modern Economizer Systems in Light Commercial Rooftop Units (November)

This training session is designed to enhance the owner's knowledge of Economizer Retrofit on Small and Medium Rooftop packaged units.

**Objectives:**

- California Title 24 Review for Light Commercial Products
- Replacement options for title 24 compliance
- Review of Economizer application to CV/SAV/VAV HVAC Equipment
- Component requirements and wiring of new systems
- Introduction to the Honeywell Jade™ Economizer Controller
- Review of Controller configuration
- Commissioning and troubleshooting
- Hands-on practical review for participants using functional JADE™ Trainers
- Introduce the new Carrier CONNECTSTAT and its capabilities

**Audience:**

Individuals involved in the operation, maintenance and service of HVAC Equipment. Individuals include: HVAC Service and Maintenance technicians. Owners seeking more in-depth understanding should also attend.

**Prerequisites:**

Those attending should have a basic knowledge of Economizer equipped Packaged Rooftop Air Conditioning Units.

**Computer Requirements: None**

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