

**TRANE®**

**2009**

## Schedule of Classes

Register Today...

**Educational and Instructional Courses for the  
HVAC Industry  
Held at Trane NY, LI & NJ**



**For registration and training information please contact us at:**

**New York**

45-18 Court Square  
Long Island City, NY 11101  
718-269-3600 Phone  
718-269-3601 Fax  
marketingny@trane.com

**New Jersey**

4 Wood Hollow Road  
Parsippany, NJ 07054  
973-434-2198 Phone  
973-434-2299 Fax  
marketingnj@trane.com

**Long Island**

225 Oser Avenue  
Hauppauge, NY 11788  
718-269-3600 Phone  
718-269-3758 Fax  
marketingny@trane.com

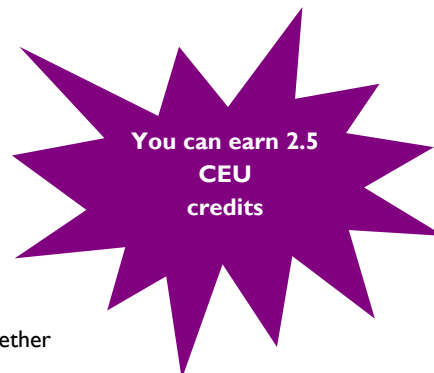
## To Sign Up Contact our Marketing Department:

973-434-2198 marketingny@trane.com or  
718-269-3600 marketingnj@trane.com

### Tracer Summit System Operations

In this course you will learn to operate and modify an installed Tracer Summit System. This is a highly interactive course where you will learn to exercise common applications of a Tracer Summit building management system. At the end of this course the student will be able to:

- Monitor and control building mechanical systems
- Respond to alarm conditions
- Create custom alarms and expanded messages
- Create schedules
- Modify existing graphics
- Generate reports, trends and calculations
- Monitor Chiller Plant Control
- Learn how Time-of-Day (TOD), Area and Variable Air Systems (VAS) work together



**New Jersey** Tuesday-Friday 8:00AM—4:30PM, Friday 8:00AM—11:30PM  
**March 24—27**

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### Air Conditioning Clinic

The Air Conditioning Clinic is a comprehensive battery of 12 classes designed to give an overview of the entire HVAC industry. Each class deals with a specific area of the many disciplines required to successfully design, install and service comfort providing equipment. The classes are divided as follows:

- Basic Refrigeration Cycle
- Reciprocating and Scroll Compressors
- Refrigerant System Piping
- Psychrometry
- The Cooling Load Estimate
- Variable Air Volume

This course is designed for the newly employed designer/engineer, the servicing technician, and the building operator trying to better understand their systems and also provides a good review for the more experienced student

Upon completion of the course, the student will have a basic understanding of the various equipment and systems used in providing comfort cooling today, and be able to identify the various components. In addition, basic troubleshooting skills will be enhanced through a better understanding of the manner in which the components relate to each other in a system.

**New York** 5:30—7:30 PM  
**March 31~April 2, 7, 14, 16, 21, 28, 30 ~ May 5, 7, 12, 14**

**Long Island** 5:30—7:30  
**March 30~ April 1, 6, 13, 15, 20, 22, 29 ~ May 4, 6, 11, 13**

**New Jersey** 6:00—8:00 PM  
**January 26, ~ February 2,9,23 ~ March 2, 9, 16, 23, 30 ~ April 6, 13,**

**Fee: \$495 per person**

**Includes:**

- All literature
- Framed Certificate of Completion
- Light snack at each class



## Trane New York - New Jersey

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### Absorption Owner's Operation and Maintenance Seminar

A one day Absorption Chiller Operation Maintenance Seminar that presents an overview of the product, theory of operation and general maintenance guidelines. It is designed for operators and owners of Trane Absorption Chillers. Significant time is allotted for questions and answers with Trane Service Engineers.

**New York 8:00 AM—4:00 PM**  
**March 3-4**

**Fee: \$375 for non-contract customers**  
**FREE for Service Contract Customers** (Trane NY Service Clients please contact your sales representative)  
**Includes: All literature**  
**Light Breakfast and Lunch**

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### Centravac Owner's Operation and Maintenance Seminar

A one day Centrifugal Chiller Operation and Maintenance Seminar that presents an overview of the product, theory of operation and general maintenance guidelines. It is designed for operators and owners of Trane Centrifugal Chillers. Significant time is allotted for question and answers with Trane Service Engineers.

**New York 8:00 AM—4:00 PM**  
**February 24-25**  
**New Jersey 8:00 AM—4:00 PM**  
**March 4**

**Fee: \$375 for non-contract customers**  
**FREE for Service Contract Customers** (Trane NY Service Clients please contact your sales representative)  
**Includes: All Literature**  
**Full Breakfast and Lunch**

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### DX—Rooftop & Self Contained Operation and Maintenance Seminar

A one day Rooftop & Self Contained Operation and Maintenance Seminar that presents an overview of the product, theory of operation and general maintenance guidelines. It is designed for operators and owners of Trane DX Rooftop & Self Contained chillers. Significant time is allotted for question and answers with Trane Service Engineers

**New Jersey 8:00 AM—4:00 PM**  
**March 12th**

**Fee: \$375 for non-contract customers**  
**FREE for Service Contract Customers** (Trane NY Service Clients please contact your sales representative)  
**Includes: All Literature**  
**Full Breakfast and Lunch**

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### Tracer Systems Integration Installation and Commissioning

This is an advanced-level class. Students must have completed Tracer Summit 101 & 102

- Define integrated systems
- Describe standard protocol technologies: BACnet, BACnet/IP, Lon Talk, Modbus
- Identify basic IP network architecture
- Program & configure a Cimetrics router and MS/TP devices
- Create client-side and server-side CSV files
- Implement an ION power meter for use with the Tracer Summit communications bridge
- Install advanced LonTalk profiles and networks with Tracer Summit and LonTalk devices from other vendors

**New York Monday 10:00-5:00PM**  
**Tuesday– Thursday 8:00-4:00PM**  
**October 5—9 Friday—8:00-12:00PM**

**Fee: \$1800 per person**



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718-269-3600 marketingnj@trane.com

### Tracer Summit 101

Tracer Summit 101 is a “hands on” course that provides the student with the skills needed to program and troubleshoot a Tracer Summit System. (Prerequisite for Tracer Summit 102)

The following subjects are covered in this class:

- Tracer Summit software installation/registration
- Site configuration
- BCU installation
- Ethernet LANs
- BACnet / IP LANs
- BCU comm links
- Interfacing LonTalk with the BCU
- Generic LonTalk Devices (GLDs)
- Alarm and message routing
- Graphics
- Time of Day Schedules
- Introduction to the Area Application
- Introduction to the Comm4 Variable Air Systems (VAS) application
- BCU Sizing
- Site backup and restore



New Jersey  
September 14—18

Monday —Thursday 8:00AM—4:00PM  
Friday 8:00AM—12:00PM

Fee: \$1800 per person

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### Trane Tracer Users Group (TUG) (Classes are free)

The Tracer Users Group is a quarterly gathering of Trane Tracer and Summit Owners and Operators for instruction and discussion on how to better utilize your automation systems. **Dates to be Announced**

Topics Include:

- Tracer Summit Functions—Schedules and Reports
- HVAC Applications -
- Advance Users Operations -
- Web Server / Lan Based Systems -

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### Tracer Summit 102

In Tracer Summit 102, students are introduced to the standard applications included with the Summit software through lecture and extensive hands-on workshops. (Tracer Summit 101 is the prerequisite for Tracer Summit 102) (Tracer Summit 102 is the prerequisite for Tracer Summit 103 and Systems Integration, Installation and commissioning)

The following subjects are covered in this class:

- Area Control
- Variable Air Systems (VAS) [Comm4 and LonTalk]
- Chiller Plant Control (CPC)
- Custom Programming Language (CPL) used in Tracer Summit



New York  
October 19 –23

Monday 10:00—5:00PM Tuesday-Thursday 8:00AM—4:00PM  
Friday 8:00AM—12:00PM

Fee: \$1800 per person

## Tracer Summit 103

In Tracer Summit 103, students apply the concepts taught in TS101 and TS102 to “real world” applications. Extensive hands-on workshops proved the students with the opportunity to write custom CPL programs the enhance the packaged Tracer Summit applications. (Tracer Summit 101 and 102 are prerequisites for Tracer Summit 103)

- Event driven alarming with CPL programs
- Multiple pump rotation with failure recovery
- Controlling a variable flow primary chiller plant with Chiller Plant Control
- Implementing fan static optimization on VAV systems
- Implementing ASHRAE 62.1-2004 ventilation reset of VAV systems
- Sequencing chillers with Chiller Plant Control based upon chiller run hours



*\*\*\*Because the majority of the workshops require complex CPL routines to be written in a timely manner, it is imperative that students have a good working knowledge of the Tracer Summit Custom Programming Language (CPL).*

**New York**

**Monday 10:00-5:00PM**

**Fee: \$1800 per person**

**November 2—6**

**Thursday 8:00AM—4:00PM, Friday 8:00AM—12:00PM**

## Tracer MP580/581 Installation and Programming

This field-installed controller is well suited for a wide variety of building control applications such as air handlers, cooling towers, pumps, boilers and heat exchangers. Students learn to configure the MP581/581 using the Rover service tool. Topics include point programming, Tracer Graphical Programming (TGP), utilizing the Tracer MP580/581 as a small building controller and integration with Tracer Summit using built-in profile variables and existing library routines.

### Topics covered:

- Rover Service Tool
- MP580 Hardware Layout
- Tracer Graphical Programming (TGP)
- Small Building Networks
- Interfacing Tracer Summit with the MP580



**New Jersey**

**Monday—Thursday 8:00—4:00PM**

**Fee: \$1800 per person**

**May 18—22**

**Friday—8:00—12:00PM**

## Trace 700 Load Design Training

- Model complex building geometries and systems to fine-tune the design of critical building features
- Examine the program’s time saving templates of construction types, weather data and more
- Build schedules to control occupancy, lighting and miscellaneous building load
- Learn how to show the benefits of advanced HVAC technology on high efficiency equipment
- Be smarter when choosing equipment that will provide the best comfort at the lowest cost to the building owner
- Find out how to customize utility rate information and turn it into actual dollar figures when choosing a system
- Trace 700 Load Design: Detailed Load Calculation Program that serves as input to Trace 700 analysis
- Trace 700 Energy and Economics and Load Design



**New Jersey**

**Wednesday-Thursday 8:00—5:00pm**

**FEE: \$350 per person**

**Dec 9-10**

To Sign Up Contact our Marketing Department:

973-434-2198 marketingny@trane.com or  
718-269-3600 marketingnj@trane.com

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### Precedent Relia Tel / Micro Controls

Upon completion of this course you will be familiar with:

- Diagnostics and Troubleshooting
- What to expect during equipment start-up and operation
- Individual Component Test Procedures
- Zone Sensor
- Unitary Control Processor
- Unitary Economizer
- Defrost Module
- Conventional Thermostat Interface (TCI)

**Location, Time and Date:** TBD (May be held in March/April 2009) **Fee:** \$300 per person

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### Why Compressors Fail?

Upon completion of this course you will be familiar with the electrical and mechanical reasons why compressors fail. You will be able to understand when a failure occurs, how to determine if it is the compressor or the system.

**Location, Time and Date:** TBD (May be held in March/April 2009) **Fee:** TBA

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### Samsung Training

Upon completion of this course you will be familiar with:

- Mini Split / On Demand Water Heater
- Product Overview
- Product Features
- Applications
- Competitive Analysis
- Specifications

**Location, Time and Date:** TBD (Will be held in March/April 2009) **Fee:** TBA

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### Engineers Newsletter Live

Be our guest ... attend this Live, Satellite Broadcast from Trane

**Topics:**

- LEED—March 11, 2009
- ASHRAE sponsored broadcast—April 22
- Ice Storage System Design—May 13
- Air Handling Systems, Energy, and IAQ—November 4

**New York** 11:30 AM—1:00 PM **Fee: FREE**  
**New Jersey** 11:30 AM—1:00 PM **Lunch will be served**

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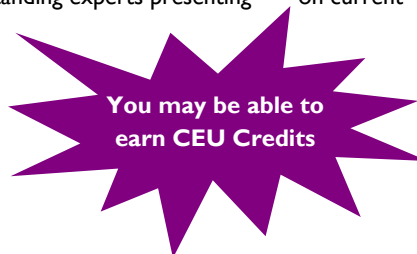


### Breakfast with Trane

This worthwhile event is unique to our industry. Please join us to gather and listen to outstanding experts presenting on current topics with in our industry.

**Topics:** Mar 24-26 2009 - ASHRAE **Fee: FREE**  
June 2,3,4 - Details to follow **Breakfast will be served**  
Oct 6,7,8 - Details to follow

**Locations:** New York, New Jersey and Long Island



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**Directions to: [New York Office / 45-18 Court Square / Long Island City, NY 11101](#) 718-269-3600**

**Midtown Tunnel:** First exit after the tolls, bear to the right. Straight ahead there is a ramp. The ramp bends to the right. Pass first light. After the second light make a right. You are on Jackson Avenue. Take Jackson Avenue to 45-18 Court Square. Landmarks are Citibank Building and Brooks Restaurant.

**Long Island Expressway:** West to Van Dam Street. At Van Dam Street make a right. Make a left onto Thomson Avenue. Go over the Thomson Avenue bridge. Make your first left. Then make a quick right, cannot go straight. This takes you right into parking lot. We are across the parking lot on 45-18 Court Square.

**Triboro Bridge:** Take exit at 31st Street. Make a right at 31st Street to Broadway. At Broadway make a right. Take Broadway to 21st Street and make a left. Take 21st Street to 44th Drive (Citibank building is ahead of you). 44th Drive make a left on Jackson Avenue.. Make a right to Court Square. At Court Square make a left. Parking left is on the left across from 45-18 Court Square.

**#7 train:** - to 45<sup>th</sup> Road and Court House Square,

**E, V, And G trains:** to 23rd Street and Ely Avenue.

**Long Island Railroad:** off at Hunters Point. Either walk or take #7 train to Court Square Station.

We are right across from the Citibank Building in Long Island City.

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**Directions to: [Long Island Office / 225 Oser Avenue / Hauppauge, NY 11788](#) 718-269-3758**

**Northern State Parkway Eastbound:** Proceed on Northern State, eastbound ½ mile east of Sagtikos Parkway to New Highway exit. Exit at New Highway. Proceed to Stop sign. Go straight to next right, which is Oser Avenue. Make right turn on Oser Avenue and go past Adams Avenue. Our building is 2<sup>nd</sup> building on right after Adams Avenue. 225 Oser Avenue door to seminar is on left side of building.

**Long Island Expressway Eastbound:** Long Island Expressway exit 53. Merge onto Express Drive South to Wicks Road (south)/ Moreland Road (north). Make a Left heading north onto Moreland Road, take to the end. Make right on Parkway Drive South / New Highway. Go straight to next right, which is Oser Avenue. Make right turn on Oser Avenue and go past Adams Avenue. Our building is 2<sup>nd</sup> building on right after Adams Avenue. 225 Oser Avenue door to Seminar is on left side of building.

**South Shore, Long Island:** Southern State Parkway to Sagtikos Parkway North exit 41A towards Sunken Meadow Park. Take to Northern State Parkway, eastbound, approximately ½ mile exit at New Highway. Proceed to Stop sign. Go straight to next right, which is Oser Avenue. Make right turn on Oser Avenue and go past Adams Avenue. Our building is 2<sup>nd</sup> building on right after Adams Avenue. 225 Oser Avenue door to seminar is on left side of building.

**Long Island Expressway Westbound:** Long Island Expressway Westbound to exit 55, towards CR67/ Motor Parkway / Central Islip. Merge onto Expressway Drive North. Turn right onto Motor Parkway / Vanderbilt Motor Parkway. Turn right onto Marcus Boulevard. Turn Left onto Oser Avenue at next traffic light. 225

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**Directions to: [New Jersey Office / 4 Wood Hollow Road / Parsippany, NJ 07054](#) 973-887-8800**

**Garden State Parkway (Bergen County & North):** Take exit 159. Get onto Route 80 west. Take exit 43. Follow signs for Route 287. (Do not get on Route 287) When on the ramp, follow sign for Route 287 North and Route 46. Exit at sign for Route 46 and Smith Road. Bear right and at the stop sign, make a right onto Littleton Road. Continue to the end of Littleton Road and at the light, make a right turn onto Smith Road. At the second traffic light (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**Garden State Parkway (Essex County & South):** Take exit 145. Get onto Route 280 west. Take Route 280 west and continue past exit 1 to where the highway divides. Stay in the right lane and follow signs for Route 287 and 46. You will be traveling parallel to Route 80. Get off at exit 43 and follow the signs to Route 46 and Smith Road. Bear right and at the yield sign, make a right onto Littleton Road. At the light make a right turn onto Smith Road. At the second traffic light (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**From Route 287 Going South:** Take exit 42. Make a left at the light after the exit onto Parsippany Boulevard. Make a left at the next light onto Route 46 east. Before the next light, bear right immediately after the Gulf Station (sign points to Route 80) This is Smith Road, follow Smith Road to the third traffic light, (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**From Route 287 Going North:** Take exit 41A. Bear right on ramp to traffic light at Smith Road, make a right, at the next light (in front of the Sheraton Hotel ) make a right onto Wood Hollow Road.

**From Route 80 Going East:** Take exit 42. Follow signs for Route 202 north, also known as Littleton Road. The road will divide so that the right lane enters onto Rt. 80 West and the left lane will remain Littleton Road (Rt. 202). Stay on Littleton Road. Before traffic light stay in right lane. Continue going straight through on Littleton Road to the end. Make a right at the light onto Smith Road. At the second light on Smith Road (in front of the Sheraton Hotel) make a right onto Wood Hollow Road.

**From Rt. 80 Going West:** Take exit 43, follow signs for Route 287. (Do not get on Route 287). When on the ramp, follow sign for Route 287 North and Route 46. Exit at sign for Route 46 and Smith Road. Bear right and at the yield sign, make a right onto Littleton Road. At the light make a right turn onto Smith Road. At the second traffic light (in front of the Sheraton Hotel) make a right hand turn onto Wood Hollow Road.

**From Newark Airport/Route 24 West:** From the airport take Route 78 west to Route 24 west. Take Route 24 West to Rt. 287 north. Then follow directions from Route 287 north to Exit 41A.

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**TRANE®**

## Mission

### Trane New York / New Jersey

To be the leader in each aspect of our business

We will attain this leadership by:

- Understanding our clients' expectations and proactively striving to exceed them every time ... with service excellence.
- "Teaming within" such that our clients experience the full resources of our unique offerings ... and find enduring value.
- Employing quality, service-minded associates and training them to a technical proficiency while encouraging personal and professional growth ... with world class safety.
- Adhering to the highest ethical standards while focusing on the long-term profitable growth of each client relationship.

"equipment, integrated comfort systems, aftermarket system services, parts, comprehensive turnkey solutions

## Our Locations

### New York City

#### Sales and Parts

45-18 Court Square  
Long Island City, NY 11101  
Phone: 718-269-3600  
Fax: 718-269-3601

### Long Island

#### Sales and Parts

225 Oser Avenue  
Hauppauge, NY 11788  
Phone: 718-269-3600  
Fax: 718-269-3758

### Westchester

#### Sales and Parts

11 Clearbrook Road  
Elmsford, NY 10523  
Phone: 914-593-0303  
Fax: 914-593-7222

### New Jersey

#### Sales

4 Wood Hollow Road  
Parsippany, NJ 07054  
Phone: 973-887-8800  
Fax: 973-887-8844

### Pine Brook

#### Parts

26 Chapin Road  
Pine Brook, NJ 07058  
Phone: 800-55-TRANE  
Fax: 973-883-5592

### South Plainfield

#### Parts

107H Corporate Boulevard  
South Plainfield, NJ 07080  
Phone: 888-66-TRANE  
Fax: 908-412-1331

### Teterboro

#### Parts

375 North Street, Unit J  
Teterboro, NJ 07608  
Phone: 877-50-TRANE  
Fax: 201-489-8429

[www.tranenynj.com](http://www.tranenynj.com)

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