



# 2018 Daikin Learning Institute Training Catalog



*HVAC Theory, Design & Technical Service Training*



Daikin Applied is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU.



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## Welcome to Daikin Applied

Daikin Applied delivers engineered, flexible solutions for commercial, industrial and institutional HVAC requirements with reliable products, knowledgeable applications expertise and responsive support. As part of Daikin Industries, a Fortune 1000 company, Daikin Applied is the largest air conditioning, heating, ventilating and refrigeration company in the world. We have earned a worldwide reputation for providing a full line of quality products and expertise to meet the demands of our customers.

## Daikin Learning Institute

The Daikin Learning Institute offers industry-leading training programs for heating, ventilating and air conditioning (HVAC) professionals, owner/operators, contractors, service technicians, building and systems engineers, designers, distributors, sales reps and internal employees. Once you have made the investment in efficient, flexible Daikin HVAC equipment, taking care of your investment should be a top priority. Daikin Learning Institute offers technical service training courses to learn first hand, from the manufacturer, what it takes to get the most out of your mechanical system.

## Daikin Applied is Accredited by IACET

Daikin Applied is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU. IACET is known as the premier standard-setting organization for continuing education and training providers. Daikin Applied has completed an extensive application process, has undergone review and evaluation by IACET representatives, and has successfully demonstrated adherence to all IACET criteria and guidelines under the ANSI/IACET 1-2013 Standard. Daikin Applied will comply with IACET continuing education standards for courses awarding Continuing Education Units (CEU's).

## Daikin Learning Institute Safety Statement

The goal of Daikin Learning Institute is to provide product specific training and information necessary to establish a high level of proficiency in operating and servicing Daikin products. While product specific safe work procedures are built into our training program, knowledge and formal training of an applicable safe working culture, competency, practices and procedures for working in the HVAC field is the obligation of the employer and individual prior to attending Daikin Applied equipment training.



## HVAC Theory & Design Training

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### Daikin Learning Institute HVAC Theory & Design Training Staff



#### Manager, Professional Development Training

**Robin Breth**

Daikin Learning Institute - Plymouth

Robin has over 35 years of experience with Daikin Applied and the last 5 years with Daikin Learning Institute. Robin has developed in-depth knowledge and understanding of multiple generations of our products, provided solid leadership skills in the areas of business planning/execution, team management, project management and training development. In addition, Robin has developed strong business relationships with our internal and external Sales Force. Please contact Robin with any questions or concerns about the “Principles of...” training sessions or how to register, robinm.breth@daikinapplied.com

**Education:**

Robin holds a B.A. in Business Management from Augsburg College and a M.A. in Human Resource Management from Concordia University – Saint Paul.

#### Graduate Engineer Trainer and Application Engineer

**Jeff L. Johnson**

Daikin Learning Institute - Plymouth

- Jeff has been an Engineer Trainer with Daikin Learning Institute since 2014. He has been in the Heating, Ventilation and Air Conditioning industry for over 30 years with the last 8 of those years as a trainer.
- He creates animated PowerPoint presentations to make for an interactive training session.
- Jeff teaches Psychrometrics, Thermodynamics and many other classes with an intuitive and hands-on approach. He has created videos for short informational training sessions as well.
- He creates workshops that generate student involvement in facility tours and he is involved in textbook corrections and development.
- Jeff is a certified International Ground Source Heat Pump trainer.
- Active ASHRAE member.



## HVAC Theory & Design Training

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### Training Administrator, Professional Development Training

**Kim Benson**

Daikin Learning Institute - Plymouth

Kim is a Training Administrator at the Daikin Learning Institute for Sales Rep Training. Prior to joining Daikin Applied in 2013, Kim worked in hospitality and as an event manager where she gained valuable experiences in customer service and planning.

Kim has enjoyed learning about the HVAC industry and facilitating various training sessions.

Kim received a Bachelor of Science degree from North Dakota State University (Go Bison!) in Fargo, North Dakota.

In her personal time, Kim enjoys grilling and spending time with her husband, family, and her cat.





# HVAC Theory & Design Training

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## Enrollment

To obtain the most effective training, carefully match your student(s) with the appropriate courses by evaluating the course content and objectives with them. Class size is limited and is offered on a first-registered, first-attend basis. Confirmation of enrollment along with hotel and travel information will be sent to the student within five working days after receipt of your paid application. Upon receipt of your confirmation, check it carefully and contact the Training Administrator immediately at 763-553-5324 if you find any discrepancies. An application received without full tuition payment does not reserve a space. If a class is full, we will contact the enrollee for standby or an alternate class date. Please verify your enrollment. If you do not receive an enrollment confirmation letter two weeks prior to the start of class, contact the Training Administrator, as we may not have received your application.

## CEU's (Continuing Education Units)

At the conclusion of the course that is awarding CEU's, the student will review, discuss and be assessed with a test on the learning outcomes of the course. The test will be graded based on the percentage of questions to determine the students' learning outcome. A score of 70% will be required for successful completion of the course and to be awarded CEU's (continuing education units).

## Registration

To attend an HVAC Theory & Design course listed in this training catalog, there are two ways to enroll.

1. Complete the attached enrollment form and e-mail or mail to:  
Daikin Applied/Attn: Daikin Learning Institute  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
PH: 763-553-53246  
E-mail: [training.reg@daikinapplied.com](mailto:training.reg@daikinapplied.com)
2. Complete the enrollment form on [www.daikinapplied.com/training](http://www.daikinapplied.com/training) and submit electronically.

# HVAC Theory & Design Training

## Payment

Payment must be received in advance of the training course. If payment has not been made prior to the start of class, the student(s) will not be admitted. Indicate your payment method on the registration form. Payment can be made by:

- Major Credit Card. Complete the credit card information on the registration form.

## Course Scheduling

Classes begin at 8 a.m. and end at 5:00 p.m (unless noted otherwise). Half days that are noted on the schedules are completed by noon of the last class date shown on the calendar. All other classes end by 5:00 p.m. Travel arrangements should be made to accommodate this schedule.

## Cancellation Policy

Registrations cancelled within 10 working days prior to the course start date will be charged the full course fee. Cancellations made less than four weeks prior to the course start date will be charged 50% of the course fee. An alternate person may use a confirmed space without penalty and substitutions may be made up until the start of class. It is the student's responsibility to cancel hotel reservations.

Daikin Learning Institute reserves the right to make changes or alterations to the course content or schedule. Daikin Learning Institute is not responsible for airline fees associated with changing dates or cancellation of classes. In the unlikely event of a schedule change or cancellation, every effort will be made to notify all registrants in a timely manner.

## Hotel Information

A recommended hotel, with Daikin Applied preferred rates, will be provided with the class registration confirmation. Students are responsible for making their own hotel arrangements.

## Transportation

Students are responsible for their own transportation to and from the training center. Hotels may not provide shuttle service, so check with them when making your reservations.

## Factory Tours

The appropriate personal protection equipment will be provided if your course includes a facility tour.





## HVAC Theory & Design Training

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### Dress Code

Our dress code is business casual. No open toe shoes or shorts please.

### Training Materials

Training materials are included in the price of the course and may include, but is not limited to, books, printed PowerPoints, flash drives and other resources. Please plan accordingly for transporting materials back to your location.

### Visit Us Online

For additional information or the most current course schedules, please visit our web page to learn more about Daikin products, services and training. Our Internet address is: [HTTP://WWW.DAIKIN APPLIED.COM](http://www.daikinapplied.com).

## HVAC Theory & Design Training Schedule

Course Title	Location	Tuition	Length	2018 Dates
Principles of HVAC	Plymouth, MN	\$1,500	5 days	Apr 2 - 6 Sep 24 - 28
Principles of Refrigeration	Plymouth, MN	\$900	3 days	Feb 20 - 22 Oct 30 - Nov 1
Principles of Chiller Plant Design	Plymouth, MN	\$1,200	5 days	May 7 - 11 Dec 3 - 7
Principles of Air System Design	Plymouth, MN	\$1,200	4 days	Mar 12 - 15 Jun 11 - 14 Nov 13 - 16

## Technical Service Training

Course Title	Location	Tuition	Length	2018 Dates	
Installing & Configuring Intelligent Solutions®	Gardiner Cleveland, OH	\$550	2 days	Apr 24 - 25	
Installing & Configuring Intelligent Solutions®	Air Reps Seattle, WA	\$550	2 days	May 15 - 16	
Installing & Configuring Intelligent Solutions®	Plymouth, MN	\$550	2 days	Nov 6 - 7	
VFD Installation & Operation	Plymouth, MN	\$250	1 day	Feb 5 Mar 23 Apr 20	May 4 Sep 14 Oct 5

# HVAC Theory & Design Training

## Principles of Refrigeration

**Course Description:** This course will provide the sales person, technician or engineer with a strong foundation and a thorough understanding of the refrigeration circuit, the heart of the HVAC system. This is essential to be successful in the HVAC industry. The student will learn the fundamentals of thermodynamics and heat transfer, PH diagrams, ideal refrigeration circuits, heat exchanger and compressor design, refrigerants and refrigerant piping. Hands-on application and homework assignments will let the student practice what they learn in class.

**Course Level:** Beginner

**Who Should Attend:** Sales and application engineers and technicians who work with HVAC equipment.

**Prerequisite Courses or Skills:** Engineering degree or strong technical background with 0-5 years field experience.

### Learning Outcomes:

Upon successful completion of this course, attendees will be able to:

- Understand refrigeration system design including single and multi-stage systems
- Assess refrigeration modification including sub-cooling, hot-gas reheat and hot-gas bypass
- Distinguish the strengths and weaknesses of different compressor types as well as appropriate situations to apply them
- Analyze how refrigeration systems should be applied to deliver efficient and reliable performance
- Identify advanced technology, such as magnetic bearing compressors, and how it benefits building owners and other customers
- Define current types, policies and environmental issues surrounding refrigerants

### Course Location

Daikin Applied  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
PH: 763-553-5324

### Course Fee

\$900

### Course Length

3 days

### CEU's Offered - 2.0

Yes  No  
Testing Required  
 Yes  No

### 2018 Course Schedule

Feb 20 - 22  
Oct 30 - Nov 1

### Registration Deadline

Feb 2  
Oct 12

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute will provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner

# HVAC Theory & Design Training

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**Course Location**

Daikin Applied  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
PH: 763-553-5324

**Course Fee**

\$1,200

**Course Length**

4 days

**CEU's Offered - 3.0**

Yes  No

Testing Required

Yes  No

**2018 Course Schedule**

Mar 12 - 15

Jun 11 - 14

Nov 13-16

**Registration Deadline**

Feb 23

Jun 1

Nov 16

The training fee is 10% higher for registrations received after the deadline.

**Daikin Learning Institute will provide**

Instruction Materials  
Coffee  
Breaks  
Lunch  
Group Dinner

## Principles of Air System Design

**Course Description:** This course covers a full range of instruction from basic theory and fundamentals of heat transfer, fluid dynamics and psychrometrics to air-side application theory, fan and coil selection, duct design, and air-side controls. Several building types will be used in simulated interactions between design engineers and sales engineers regarding hypothetical new construction and renovation projects.

**Course Level:** Beginner

**Who Should Attend:** Sales and application engineers and technicians who are looking for an introduction to Air System Design

**Prerequisite Courses or Skills:** Mechanical engineering degree or other engineering discipline with experience in building systems. Completion of Principles of HVAC strongly recommended.

**Learning Outcomes:**

Upon successful completion of this course, attendees will be able to:

- Define air distribution methods and their pros and cons
- Analyze psychrometrics and its use in HVAC design
- Identify heating and cooling coil design and application
- Assess fan types and their use in various applications
- Distinguish the two most common methods of duct design
- Learn fundamental acoustics in air-side systems
- Understand DOAS and heat recovery system
- Differentiate options for air-side design in various building types
- Distinguish common codes and standards used in air-side design

# HVAC Theory & Design Training

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## Principles of HVAC

**Course Description:** This course will provide the salesperson, engineer or technician with a strong foundation and a thorough understanding of the principles of heating, ventilating and air conditioning. The student will be introduced to thermodynamics and psychrometrics, plans and specs, space and building loads, controls theory, acoustics, energy modeling, electrical components, motors and VFDs. Workshops and homework assignments will let the student practice the skills they learn in class.

**Course Level:** Beginner

**Who Should Attend:** Sales and application engineers and technicians who are looking for an introduction or refresher course on all components of HVAC systems.

**Prerequisite Courses or Skills:** Engineering degree or strong technical background with 0-5 years field experience.

### Learning Outcomes:

Upon successful completion of this course, attendees will be able to:

- Interpret the construction industry, the design process, and plans and specs
- Learn thermodynamics, psychrometrics, thermal comfort
- Analyze controls theory and basic control components
- Understand acoustics and how to model acoustics for HVAC equipment
- Define controls integration and electrical power distribution
- Assess motor and variable frequency drive operation and theory

### Plymouth Course Location

Daikin Applied  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
PH: 763-553-5324

### Course Fee

\$1,500

### Course Length

5 days

### CEU's Offered - 3.5

Yes  No

Testing Required

Yes  No

### 2018 Course Schedule

Apr 2 - 6

Sep 24 - 28

### Registration Deadline

Mar 16

Sep 14

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute will provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner

# HVAC Theory & Design Training

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**Course Location**

Daikin Applied  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
PH: 763-553-5324

**Course Fee**

\$1,200

**Course Length**

5 days

**CEU's Offered - 3.5**

Yes  No  
Testing Required  
 Yes  No

**2018 Course Schedule**

May 7 - 11  
Dec 3 - 7

**Registration Deadline**

Apr 20  
Nov 16

The training fee is 10% higher for registrations received after the deadline.

**Daikin Learning Institute will provide**

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner

## Principles of Chiller Plant Design

**Course Description:** This course is intended to give the sales engineer and technician a thorough understanding of chiller plant design. The attendee will learn hydronics, pump design, condenser water systems, building loads and diversity, terminal devices, constant and variable flow systems, chiller plant variations and optimization, energy recovery, water-side free cooling, thermal storage, process applications, district cooling and mechanical room safety. Attendees will mix in class instruction with hands-on work experiences in the ADC. Real world examples using plans and specs will be used as homework assignments.

**Course Level:** Beginner

**Who Should Attend:** Sales and application engineers and technicians who will be involved with chiller sales and owner direct sales.

**Prerequisite Courses or Skills:** Engineering degree or strong technical background. Completion of the Principles of Refrigeration is strongly recommended.

**Learning Outcomes:**

Upon successful completion of this course, attendees will be able to:

- Understand hydronics design and pump selection
- Assess how building load profiles affect chiller plant design
- Learn all forms of chiller plant design including constant and variable flow systems, how they work and how they are controlled
- Identify low delta T issues and how to resolve them
- Analyze chiller plant optimization for energy efficiency
- Distinguish what systems work best within different applications



## Daikin Learning Institute Training Registration Form

Course Title: \_\_\_\_\_  
Dates: \_\_\_\_\_  
Course Location: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Student Name: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_  
Submitted By: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

### **Please Specify Payment Option Below And Complete All Information.**

Company Name: \_\_\_\_\_  
Billing Address: \_\_\_\_\_  
Contact: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

CREDIT CARD:     Master Card     VISA     American Express     Discover (Novus)

Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Cardholder Printed Name: \_\_\_\_\_

### **Payment is due in advance or student(s) will not be admitted.**

Mail copy of application form to:  
Daikin Applied/ Attn: Daikin Learning Institute  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
763-553-5324

E-mail copy of application to:  
[training.reg@daikinapplied.com](mailto:training.reg@daikinapplied.com)

*Daikin Learning Institute reserves the right to make changes or alternations to the course content or schedule, and is not responsible for fees associated with changing dates or cancellation of classes. In the unlikely event of a schedule change or cancellation, our best effort will be made to notify all registrants in a timely manner.*



## Technical Service Training

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### Daikin Learning Institute Service Training Staff



#### Senior Manager of Professional Learning

##### **Traye Hogge**

Daikin Learning Institute - Staunton

- Joined Daikin Learning Institute in June 2017 assuming the management responsibility for the Staunton training team and programs
- Most recently held the position of District Manager leading the Nebraska and Iowa territories out of the Lincoln office
- Began his career with Daikin in 2011 as a Technical Support Analyst in TRC and then quickly promoted to Service Supervisor in Nebraska
- Traye earned his BS in Management and Organizational Development from Eastern Mennonite University in Harrisonburg, VA and his MBA from Columbia Southern University in Alabama.
- Traye and his wife, Shannon and four children have relocated back to Traye's native Virginia
- Traye's goal is to increase visibility for the Daikin Learning Institute for both internal and external customers and to help build the Daikin brand. He is ideally suited for the new training role as he is able to drive strong results with his unique combination of technical and business expertise.

## Technical Service Training

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### Service Training Manager

#### Steven Selgestad

Daikin Learning Institute - Staunton

- Joined Daikin Learning Institute after having the position of Western Regional Trainer for Daikin Applied and as such, has worked extensively training technicians in the field and in classroom settings
- 40 years of HVAC experience as technician, service manager and trainer. 25 years with McQuay and now Daikin Applied as a remote factory service technician and Regional Trainer
- Certified instructor for Daikin Screw, Centrifugal, and WMC and WME magnetic bearing chillers
- Associates Degree in HVAC and Bachelors of Science in Technology from University of South Dakota, Springfield
- Worked with Daikin Applied Technical Response Center to develop software manuals for Daikin WMC product

### Daikin Learning Institute Mission Statement

The mission of Daikin Learning Institute is to offer the best training in the industry with quality training programs designed to provide the tools and resources needed for the customers to be successful.

## Technical Service Training

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### Training Administrator, Service Training

**Linda Custer**

Daikin Learning Institute - Staunton

Linda has over 25 years of service working in various capacities with McQuay and now Daikin Applied with 18 years in the service training department. To obtain the most effective training, she advises that you carefully match your student(s) with the appropriate courses by evaluating the course content and learning objectives with them. Class size is limited and is offered on a first-registered, first-attend basis.

Confirmation of enrollment along with hotel and travel information will be sent to the student within five working days after receipt of your paid application. Upon receipt of your confirmation, check it carefully and contact Daikin Learning Institute immediately if you find any discrepancies.

An application received without full tuition payment does not reserve a space. If a class is full, we will contact the enrollee for standby or to offer an alternate class date. Please verify your enrollment. If you do not receive an enrollment confirmation letter two weeks prior to the start of class, contact Daikin Learning Institute, as we may not have received your application. You may contact Linda at [linda.custer@daikinapplied.com](mailto:linda.custer@daikinapplied.com).



### Technical Service Writer

**Perry Thompson**

Daikin Learning Institute - Staunton

Perry is the technical service writer for Daikin Learning Institute. He has been with Daikin for 4 years, and has over 20 years of experience in CAD design and custom software development for multiple industries. He enjoys creating and improving learning materials of all kinds, including technical manuals, PowerPoint presentations, and other training media.

As Daikin Learning Institute continues to strive for excellence and industry-leading training techniques, you can expect to see many exciting enhancements to our course materials and online resources.

Perry is eager to assist you in finding manuals, or correcting errors and omissions that you may come across as you review our literature items. You may contact Perry at [ralph.thompson@daikinapplied.com](mailto:ralph.thompson@daikinapplied.com).



## Technical Service Training

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### Technical Service Instructors - Chillers

#### Robert Hollembeak

Daikin Learning Institute - Staunton  
 Certified Centrifugal, Rotary screw, Reciprocating, Scroll and MicroTech® chiller control instructor for Daikin Learning Institute

- 45 years experience in commercial and industrial HVACR in service, management, training, consulting and sales working for various manufacturers, public schools and as an independent contractor.
- Unlimited licensed HVAC & R contractor in GA & NC
- ACCA registered Refrigerant Transition & Recovery Proctor
- Reviews and composes service literature and procedures
- Participated in ASHRAE handbook review workshops
- Develops training programs and presentations
- Provides remote on-site customer training & global technical support
- Experience includes commissioning, servicing, analyzing and maintaining centrifugal, rotary screw, scroll and reciprocating chillers, air handling equipment, pumps, cooling towers, pneumatic and DDC controls systems



#### Anthony (Tony) Blake

Daikin Learning Institute - Staunton

- Joined Daikin Learning Institute from the Daikin Applied Richmond Service office where he worked as a senior HVAC field service technician
- 22 years experience with McQuay and Daikin
- Previously worked as a Senior Technical Support Specialist in the Chiller Technical Response Center
- Chiller engineering lab and production associate
- Technical experience with chillers and practical experience in field service and customer relations
- Provides off campus customer training
- Develops training programs, presentations to provide chiller training in Spanish for Latin America
- Experience includes commissioning, servicing, analyzing and maintaining Daikin chillers

## Technical Service Training

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### Technical Service Instructors - Chillers (continued)

#### **Charles (Christy) Jones**

Daikin Learning Institute - Staunton

- Retired, working part-time basis
- Served as Southeast Regional Service Trainer prior to joining the Daikin Learning Institute as a technical service trainer
- Over 50 years experience in the HVAC industry with HVAC technician degree having worked for several major HVAC manufacturers providing factory service and repair on their product.
- 25 years with McQuay Factory Service & Daikin Applied in various capacities including service tech, Regional trainer, remote instructor. As a technician, Christy provided service and repair on all types of HVAC systems.
- Certified instructor of Daikin Centrifugal, Reciprocating, Screw, and Scroll chillers
- Develops training programs, presentations
- Has worked extensively training and assessing technicians in the field and provided job-site training
- Provides off campus customer training and global technical support
- Served four years in US Navy in the Seabees.



## Technical Service Training

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### Technical Service Instructor - Rooftop, Rebel, SWP & WSHP

#### Larry Heyer

Daikin Learning Institute - Staunton

- Joined Daikin Learning Institute after having the position of Southeast Regional Service Trainer for Daikin Applied and is focused on Applied Air and WSHP training and has been employed with Daikin over three years
- Has over 26 years of experience in HVAC and mechanical plant operation, maintenance and training
- Previously served with US Navy in the Submarine Force
- Has years of experience in service operations, supervision, nuclear power operation and formal technical training as Naval Instructor
- Develops training programs and presentations
- Provides remote off-campus technical training
- Brings a diverse background and high degree of commitment and excellence to Daikin Learning Institute training capabilities



### Technical Service Instructor - Rooftop, Rebel & SWP

#### James Koska

Part-Time Technical Service Training Instructor/Consultant

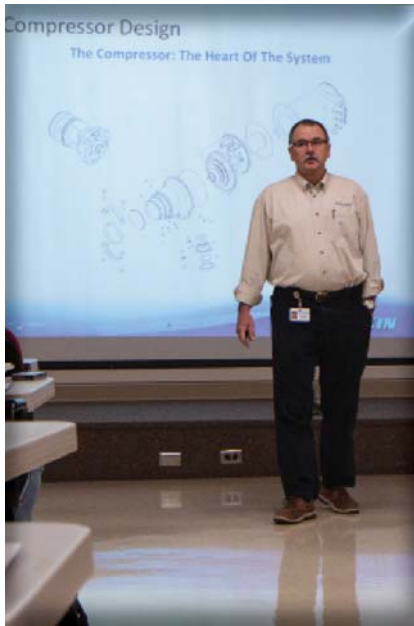
Daikin Learning Institute - Plymouth

- Has over 21 years experience in the commercial and industrial HVAC industry
- Experience includes design, selection, installation, commissioning, and servicing of commercial and industrial HVAC equipment
- Develops training programs and presentations
- Provides remote off-campus technical training
- Certification in Refrigeration, Rooftop, Self-Contained, and Rebel MicroTech® controls



# Technical Service Training

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## Enrollment

To obtain the most effective training, carefully match your student(s) with the appropriate courses by evaluating the course content and objectives with them. Class size is limited and is offered on a first-registered, first-attend basis. Confirmation of enrollment along with hotel and travel information will be sent to the student within five working days after receipt of your paid application. Upon receipt of your confirmation, check it carefully and contact the Training Administrator immediately at 540-248-9646 if you find any discrepancies. An application received without full tuition payment does not reserve a space. If a class is full, we will contact the enrollee for standby or an alternate class date. Please verify your enrollment. If you do not receive an enrollment confirmation letter two weeks prior to the start of class, contact the Training Administrator, as we may not have received your application.

## CEU's (Continuing Education Units)

At the conclusion of the course that is awarding CEU's, the student will review, discuss and be assessed with a test on the learning outcomes of the course. The test will be graded based on the percentage of questions to determine the students' learning outcome. A score of 70% will be required for successful completion of the course and to be awarded CEU's (continuing education units).

## Registration

To attend a Technical Service Training course listed in this training catalog, there are two ways to enroll.

1. Complete the attached enrollment form and e-mail, mail, or fax to:  
Daikin Applied  
Attn: Linda Custer, Daikin Learning Institute  
PO Box 2510  
Staunton, VA 24402-2510  
PH: 540.248.9646  
Fax: 763-509-7663  
E-mail: [linda.custer@daikinapplied.com](mailto:linda.custer@daikinapplied.com)
2. Complete the enrollment form on [www.daikinapplied.com/training](http://www.daikinapplied.com/training) and submit electronically.

## Technical Service Training



### Payment

Payment must be received in advance of the training course. If payment has not been made prior to the start of class, the student(s) will not be admitted. Indicate your payment method on the registration form. Payment can be made by:

- Major Credit Card. Complete the credit card information on the registration form
- Check made out to Daikin Applied
- Purchase orders are accepted to hold an enrollment, but payment is due prior to the start of class.

### Course Scheduling

Classes begin at 8 a.m. and end at 5:00 p.m. (unless noted otherwise). Half days that are noted on the schedules are completed by noon of the last class date shown on the calendar. All other classes end by 5:00 p.m. Travel arrangements should be made to accommodate this schedule.

### Cancellation Policy

Registrations cancelled within 10 working days prior to course start date will be charged the full course fee. Cancellations made less than four weeks prior to the course start date will be charged 50% of the course fee. An alternate person may use a confirmed space without penalty and substitutions may be made up until the start of class. It is the student's responsibility to cancel hotel reservations.

Daikin Learning Institute reserves the right to make changes or alterations to the course content or schedule. Daikin Learning Institute is not responsible for airline fees associated with changing dates or cancellation of classes. In the unlikely event of a schedule change or cancellation, every effort will be made to notify all registrants in a timely manner.

### Hotel Information

A list of area hotels, with Daikin Applied preferred rates, will be provided with the class registration confirmation. Students are responsible for making their own hotel arrangements. Hotels require a major credit card to guarantee room availability.

### Transportation

Students are responsible for their own transportation to and from the training center. Hotels may not provide shuttle service, so check with them when making your reservations.

### Factory Tours

Students are required to wear steel toe shoes during the plant tour, at all times when passing through the production areas, to and from the cafeteria through the plant and when participating in the hands-on teardown and assembly of the compressors. Safety glasses will be available for plant tours. Safety shoes are mandatory during compressor service courses.

# Technical Service Training

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## Dress Code

Our dress code is business casual. No open toe shoes or shorts please. Safety shoes are required when entering the production facility.

## Training Materials

Training materials are included in the price of the course and may include, but is not limited to, books, printed PowerPoints, flash drives and other resources. Please plan accordingly for transporting materials back to your location.

## Visit Us Online

For additional information or the most current course schedules, please visit our web page to learn more about Daikin products, services and training. Our Internet address is: [HTTP://WWW.DAIKIN APPLIED.COM](http://www.DAIKIN APPLIED.COM).



## Technical Service Training

### 2018 Daikin Learning Institute Service Training Schedule

Course Title	Models	Location	Tuition	Length	2018 Dates
Scroll Compressor Chiller <i>Maintenance, Operation &amp; Service</i>	AGZ, WGZ	Staunton, VA	\$1750	4.5 days	March 19 - 23 August 13 - 17
Centrifugal Compressor Chiller <i>Maintenance &amp; Operation</i>	WSC, WDC, WCC	Staunton, VA	\$1600	3.5 days	August 27 - 30
Centrifugal Compressor Chiller <i>Service &amp; Compressor Repair</i>	WSC, WDC, WCC	Staunton, VA	\$4800	2 weeks	April 30 - May 11 December 3 - 14
Air & Water Cooled Screw Compressor Chiller <i>Maintenance, Operation, &amp; Service</i>	AGS, AWS,WGS, AWV	Staunton, VA	\$1750	4.5 days	May 14 - 18 August 20 - 24
Magnitude® WMC Magnetic Bearing Compressor Chiller <i>Maintenance &amp; Operation</i>	WMC	Staunton, VA	\$1600	3.5 days	April 3 - 6 September 24 - 27
Magnitude® WMC Magnetic Bearing Compressor Chiller Service & Rep	WMC	Staunton, VA	\$2600	4.5 days	March 5 - 9 September 17 - 21 November 12 - 16
Magnitude® WME Magnetic Bearing Compressor Chiller <i>Maintenance &amp; Operation</i>	WME	Staunton, VA	\$1600	3 full days	March 13 - 15
Magnitude® WME Magnetic Bearing Compressor Chiller <i>Service &amp; Repair</i>	WME	Staunton, VA	\$2600	4.5 days	April 23 - 27 November 26 - 30
<b>MicroTech® III Service - Applied Air</b> <i>Prerequisite for Rooftop, Rebel &amp; Self-Contained Courses</i>	MT III	Marietta, GA Plymouth, MN Plymouth, MN Plymouth, MN Plymouth, MN Irvine, CA Davie, FL	\$550	2 full days	February 5 -6 March 19 - 20 April 16 - 17 April 30 - May 1 September 10 - 11 October 1 - 2 October 22 - 23 November 5 - 6
<b>Training Locations:</b> <b>Daikin Applied - Marietta, GA</b> <b>Daikin Applied - Plymouth, MN</b> <b>Daikin AC University - Irvine, CA</b> <b>Daikin Applied - Davie, FL</b>					
Rooftop Service <b>MicroTech® III Service (prerequisite)</b>	Maverick® RoofPak®	Plymouth, MN Plymouth, MN Davie, FL	\$550	2 full days	March 21 - 22 October 3 - 4 November 7 - 8
Rebel® Rooftop Service <b>MicroTech® III Service (prerequisite)</b>	DPS	Marietta, GA Plymouth, MN Plymouth, MN Irvine, CA	\$550	2 full days	February 7 - 8 April 18 - 19 September 12 - 13 October 24 - 25
Self-Contained Service <b>MicroTech® III Service (prerequisite)</b>	SWP, SWT	Plymouth, MN	\$550	2 full days	May 2 - 3
Water Source Heat Pumps	WSHP Infinity, Console, Vertical, Horizontal	Plymouth, MN	\$550	2 full days	March 14 - 15 September 18 - 19

## Technical Service Training

### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

### Course Fee

\$1,750

### Course Length

4.5 days

### CEU's Offered - 3.0

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

Mar 19 - 23  
Aug 13 - 17

### Registration Deadline

Mar 2  
Jul 27

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Scroll Chiller Maintenance, Operation & Service Course

**Course Description:** The Commercial Scroll Compressor Chiller Maintenance, Operation and Service Course is structured to provide basic classroom instruction, demonstrations, and “hands-on” exercises designed to familiarize the student with the AGZ and WGZ product features, installation requirements, and service procedures for Daikin commercial Recip & Scroll compressor products. The standard program for this seminar is 4 1/2 days of intensive training.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Define and analyze AGZ & WGZ unit components and chiller cycle review
- Analyze chilled-water systems
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Interpret wiring diagrams, legends, symbols and notes
- Evaluate split systems and field piping
- Troubleshoot motor protection for semi-hermetic & scroll compressors
- Operate and program MicroTech® chiller controllers and capacity control systems
- Describe operation and design of Scroll compressors
- Perform general maintenance & service
- Analyze operational data using log sheets and fault history
- Operate MicroTech® controls using hands-on lab sessions
- Describe refrigerant safety practices

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Scroll products.





## Technical Service Training

### Centrifugal Chiller Maintenance & Operation

**Course Description:** This training course is designed to teach the maintenance technician and building engineer how to maintain, operate, troubleshoot, and analyze performance of standard, non-magnetic Daikin Centrifugal chillers. To maximize the benefit of the course, the student should have a basic understanding of refrigeration and air-conditioning systems.

The standard program for centrifugal chiller maintenance and operation is three and one-half days of intensive training.

#### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Define and analyze the basic cycle of water-cooled chillers
- Identify Centrifugal compressor components and describe operation
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Troubleshoot compressor lubrication circuit
- Troubleshoot and adjust inlet guide vane control system
- Describe MicroTech 200 control system components and function and interpret wiring diagrams, legends, symbols and notes
- Describe MicroTech II control system components and function and interpret wiring diagrams, legends, symbols and notes
- Analyze flooded evaporator with EXV control
- Operate MicroTech® controls during hands-on lab sessions
- Identify components and describe function of Wye-Delta and Solid-State compressor starters
- Identify components and describe function of compressor VFD starters
- Optimize performance with compressor VFD controls
- Interpret and analyze operational data using MT II trends and log sheets
- Perform Centrifugal chiller maintenance

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Centrifugal products.



#### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

#### Course Fee

\$1,600

#### Course Length

3.5 days

#### CEU's Offered - 2.5

Yes  No

#### Testing Required

Yes  No

#### 2018 Course Schedule

Aug 27 - 30

#### Registration Deadline

Aug 10

The training fee is 10% higher for registrations received after the deadline.

#### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks

Lunch

Group Dinner on first night



## Technical Service Training

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### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

### Course Fee

\$1,600 - week 1 (Service)

\$3,200 - week 2 (Repair)

### Course Length

4.5 days (each week)

### CEU's Offered - 3.0

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

Apr 30 - May 4  
Dec 3 - 7

### Registration Deadline

Apr 13  
Nov 16

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Centrifugal Chiller Service Course

**Course Description:** This four and one-half day course is designed to teach the service technician how to troubleshoot and service the Daikin Centrifugal chiller. This course is the required prerequisite for the Centrifugal Chiller Repair Course and is scheduled in the preceding week to accommodate those students who will attend both courses. Students may attend both weeks of the Service & Repair Course. The technician must have attended the service course prior to attending the repair course and may attend the repair course within a year.

### Who May Attend:

The student should have a minimum of 5 years' experience with Centrifugal chillers to maximize the benefit of this course. A mechanical contractor doing installation, maintenance and repairs of centrifugal chillers is eligible to send qualified technicians to this course. The technician should have a good working knowledge of the refrigerant cycle, power and control circuitry, and be skilled in the use of standard service tools and electrical meters.

### Learning Outcomes:

Upon successful completion of the Centrifugal Service Course, students will be able:

- Define and analyze the basic cycle of water-cooled chillers
- Identify Centrifugal compressor components and describe operation
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Troubleshoot compressor lubrication circuit
- Troubleshoot and adjust inlet guide vane control system
- Describe MicroTech® 200 control system components and function and interpret wiring diagrams, legends, symbols and notes
- Describe MicroTech® II control system components and function and interpret wiring diagrams, legends, symbols and notes
- Analyze flooded evaporator with EXV control
- Operate MicroTech® controls during hands-on lab sessions
- Describe MicroTech® system software and operation
- Identify components of compressor starters and solid-state starters and VFD starters
- Optimize performance with compressor VFD controls
- Assess and operate cooling tower operation & maintenance
- Recognize various chilled-water and condenser-water systems
- Interpret and analyze operational data using MT II trends and log sheets
- Perform Centrifugal chiller maintenance

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Centrifugal products..

## Technical Service Training

### Centrifugal Chiller Service & Compressor Repair (continued)

**Course Description:** This four and one-half day course is designed to teach the service technician how to disassemble and reassemble Daikin compressors, how to fit and adjust internal operation parts and to understand normal compressor functions so as to be able to diagnose the cause of deviations from the norm. The prerequisite for this course is the Centrifugal Chiller Service Course.

#### Learning Outcomes:

Upon successful completion of the Centrifugal Chiller Repair Course, students will be able to:

- Perform Centrifugal compressor repair procedures & processes
- Disassemble and reassemble compressors. The class rotates between the following 4 groups:
  - CE050 and Oil Pumps
  - CE063
  - CE079 and CE100
  - CE087 and CE126
- Troubleshoot & solve oil-loss issues

#### **NOTE: SAFETY SHOES ARE REQUIRED FOR THE COMPRESSOR REPAIR COURSE**

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Centrifugal products.



#### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

#### Course Fee

\$1,600 - week 1 (Service)  
\$3,200 - week 2 (Repair)

#### Course Length

4.5 days (each course)

#### CEU's Offered - 3.0

Yes  No

#### Testing Required

Yes  No

#### 2018 Course Schedule

May 7 - 11  
Dec 10 - 14

#### Registration Deadline

Apr 13  
Nov 16

The training fee is 10% higher for registrations received after the deadline.

#### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Technical Service Training

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### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

### Course Fee

\$1,750

### Course Length

4.5 days

### CEU's Offered - 3.0

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

May 14 - 18  
Aug 20 - 24

### Registration Deadline

Apr 27  
Aug 3

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Daikin Air & Water-Cooled Screw Chiller Maintenance, Operation & Service Course

**Course Description:** The Air & Water-Cooled Screw Chiller Maintenance, Operation and Service Training Course is structured to provide basic classroom instruction, demonstrations, and “hands-on” exercises designed to familiarize the student with the product features, operation, maintenance and service requirements for Daikin Screw chiller products. The standard program for the maintenance, operation and service seminar is four and one-half days of intensive training.

The products covered in this seminar will be the AGS, AWS & AWV air-cooled Screw chillers and the WGS & WWV water-cooled chiller Screw chiller.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Define and analyze the basic cycle of air and water-cooled chillers
- Distinguish the difference between DX and flooded evaporators
- Describe Screw compressor & chiller design & components
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Interpret electric schematics
- Identify and operate MicroTech® Microprocessor controls for AGS, & AWS during hands-on lab sessions
- Assess Electronic Expansion Valve (EXV) operation
- Diagnose and maintain Solid-State, Wye Delta & VFD Starters
- Perform general maintenance and service, evacuation, refrigerant & oil-charging procedures
- Analyze operational data using log sheets and fault history
- Secure removal and replacement of compressors and compressor drives
- Distinguish between the different software versions for specific Daikin Applied products
- Identify chilled-water and condenser-water systems

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Screw chiller products.



## Technical Service Training

### Magnitude® WMC Magnetic Bearing Chiller Maintenance & Operation Course

**Course Description:** The Magnitude WMC Magnetic Bearing Chiller Course is designed to teach the maintenance technician and building engineer how to maintain, operate, troubleshoot, and analyze performance of Magnitude WMC magnetic bearing chillers. The standard program for the Magnitude WMC Magnetic Bearing Chiller Course is three and one-half days of intensive training.

**Prerequisite:**

The student should have a minimum of 5 years experience with Centrifugal chillers to maximize the benefit of this course. The Magnitude chiller uses a centrifugal compressor that has advanced technology.

**Learning Outcomes:**

Upon successful completion of this course, students will be able to:

- Define and analyze the basic refrigeration cycle of water chillers
- Distinguish the four different vintages of WMC chillers
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Describe magnetic bearing with VFD compressor design, maintenance and operation
- Identify and describe MicroTech® II for Magnitude WMC software & sequence of operation
- Analyze flooded evaporator with EXV control
- Describe the purpose and function of WMC part-load-balance valves
- Assess and operate cooling tower controls with Magnitude WMC Chillers
- Identify and describe various chilled and condenser water system designs
- Analyze operational data using trends and log sheets
- Operate MicroTech® II controls using hands-on lab sessions
- Perform WMC chiller maintenance

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Magnitude® WMC Centrifugal products.



**Course Location**

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

**Course Fee**

\$1,600

**Course Length**

3.5 days

**CEU's Offered - 2.5**

Yes  No

**Testing Required**

Yes  No

**2018 Course Schedule**

Apr 3 - 6  
Sep 24 - 27

**Registration Deadline**

Mar 16  
Sep 7

The training fee is 10% higher for registrations received after the deadline.

**Daikin Learning Institute to Provide**

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Technical Service Training

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### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

### Course Fee

\$2,600

### Course Length

4.5 days

### CEU's Offered - 3.0

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

Mar 5 - 9  
Sep 17 - 21  
Nov 12 - 16

### Registration Deadline

Feb 16  
Aug 31  
Oct 26

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Magnitude® WMC Magnetic Bearing Chiller Service & Repair Course

**Course Description:** The Magnitude® WMC Magnetic Bearing Chiller Service & Repair course is designed to teach the maintenance and service technician how to maintain, operate, troubleshoot, and repair Daikin Magnitude WMC Magnetic Bearing Chillers. Compressor monitor software is provided. The standard program for the Magnitude WMC Magnetic Bearing Chiller Course is four and one-half days of intensive training.

### Prerequisite:

The student should have a minimum of 5 years experience with Centrifugal chillers to maximize the benefit of this course. The Magnitude chiller uses a centrifugal compressor that has advanced technology.

### Learning Outcomes:

Upon successful completion this course, students will be able to:

- Define and analyze the basic refrigeration cycle of water chillers
- Distinguish the three different vintages of WMC chillers
- Describe magnetic bearing with VFD compressor design and operation
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Identify and describe the hardware & software of MicroTech® II for the WMC control system
- Operate compressor monitor software interface (computers recommended with Windows XP or later)
- Analyze flooded evaporator with EXV control
- Describe the purpose and function of WMC part-load-balance valves
- Analyze operational data using MT II trends and log sheets
- Perform compressor repair & diagnostics
- Operate MicroTech® II controls using hands-on lab sessions
- Utilize compressor test harness (provided) for safe testing
- Perform WMC chiller maintenance
- Upon completion, student may access the compressor support website

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Magnitude® WMC Centrifugal products.

## Technical Service Training

### Magnitude® WME Magnetic Bearing Chiller Maintenance & Operation Course

**Course Description:** The Magnitude® WME Magnetic Bearing Chiller Course is designed to teach the maintenance and service technician how to maintain and operate the Magnitude WME magnetic bearing chillers. The standard program for the Magnitude WME Magnetic Bearing Chiller Maintenance & Operation is three days of intensive training.

**Prerequisite:**

The student should have a minimum of 5 years experience with Centrifugal chillers to maximize the benefit of this course. The Magnitude® WME magnetic bearing chiller uses a centrifugal compressor that has advanced technology.

**Learning Outcomes:**

Upon successful completion of this course, students will be able to:

- Define and analyze the basic refrigeration cycle of water chillers
- Describe magnetic bearing centrifugal chiller & compressor design & operation
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Identify MicroTech E® control system components
- Navigate MicroTech E® for Magnitude WME software
- Analyze flooded evaporator with EXV control
- Describe the purpose and function of WME REV/part-load-balance valves
- Describe variable speed drive components and operation
- Optimize operation of cooling tower controls with Magnitude WME chillers
- Use Trend analysis software
- Perform general maintenance procedures

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Magnitude® WME Centrifugal products.



**Course Location**

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

**Course Fee**

\$1,600

**Course Length**

3 full days

**CEU's Offered - 2.3**

Yes  No

**Testing Required**

Yes  No

**2018 Course Schedule**

Mar 13 - 15  
(3 full days)

**Registration Deadline**

Mar 2

The training fee is 10% higher for registrations received after the deadline.

**Daikin Learning Institute to Provide**

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night



## Technical Service Training

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### Course Location

Daikin Applied  
207 Laurel Hill Rd  
Verona, VA 24482

### Course Fee

\$2,600

### Course Length

4.5 days

### CEU's Offered - 3.0

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

Apr 23 - 27  
Nov 26 - 30

### Registration Deadline

Apr 6  
Nov 9

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch  
Group Dinner on first night

## Magnitude® WME Generation-I Magnetic Bearing Centrifugal Chiller Service & Repair Course

**Course Description:** The Magnitude® WME Generation-I Magnetic Bearing Centrifugal Chiller Service and Repair Course is designed to teach the maintenance and service technician how to maintain, operate, troubleshoot, and repair the Magnitude WME magnetic bearing chillers. Compressor service software is provided. The standard program for the Magnitude WME Service and Repair Course is four and one-half days of intensive training. This course includes an introduction to WME Generation II.

### Prerequisite:

The student should have a minimum of 5 years experience with Centrifugal chillers to maximize the benefit of this course. The Magnitude chiller uses a centrifugal compressor that has advanced technology.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Define and analyze the basic refrigeration cycle of water chillers
- Describe magnetic bearing centrifugal compressor design & operation
- Identify different types of chillers and their manufacturing processes during a plant tour and product review
- Identify MicroTech® E control system components
- Navigate MicroTech® E for Magnitude WME software & settings
- Analyze flooded evaporator with EXV control
- Describe Variable speed drive components and operation
- Assess and operate cooling tower controls with Magnitude WME Chillers
- Analyze MicroTech® E Trends information
- Evaluate system performance with condenser relief
- Diagnose and repair WME Gen I compressors
- Disassemble and reassemble WME Gen I VFD components in a hands-on lab
- Use Daikin Magnetic Bearing Tool software (computers recommended with Windows XP or later)
- Load software into unit/compressor controllers and VFD controller
- Perform general maintenance procedures

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Magnitude® WME Centrifugal products.

## Technical Service Training

### MicroTech® III Controls Course for Applied Air Products

**Course Description:** The MicroTech® III Controls Course is structured to provide classroom instruction, demonstrations and exercises designed to familiarize the student with components, features, programming, set-up and service of Daikin MicroTech® III controllers. Includes hands-on training with MT III simulators.

To get the most from the course, the student should have an understanding of the refrigeration cycle, basic electronics and simple control circuits. It is recommended all students review IM-919 [CLICK HERE](#) and OM-920 [CLICK HERE](#), prior to the start of class.

The program for MicroTech® III Controls training is two full days of intensive training.

**MicroTech® III for Controls Course is the required prerequisite prior to attending the following courses:**

**Rooftop Service Course**  
**Rebel® Rooftop Service Course**  
**Self-Contained Service Course**

#### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Identify MicroTech® III (MT III) controller and components and describe the purpose/function of each
- Navigate & modify common settings and parameters in MicroTech® III controller, and operate MT III per the Daikin Operations Manual
- Access and utilize Repair Parts List. Controller Software code and technical resources via company website
- Describe programming sequences of operation in all modes and states
- Adjust MT III settings, parameters and unit configuration to meet job requirements
- Install MT III software updates and optional accessories
- Utilize MT III controller as a diagnostics and troubleshooting tool
- Interpret MT III related wiring diagrams, legends, symbols, and notes

#### Course Locations

*See schedule, page 33*

#### Course Fee

\$550

#### Course Length

2.0 days

#### CEU's Offered - 1.3

Yes  No  
 Testing Required  
 Yes  No

#### 2018 Course Schedule

*See schedule, page 33*

#### Registration Deadline

*See schedule, page 33*

The training fee is 10% higher for registrations received after the deadline.

#### Daikin Learning Institute to Provide

Instruction Materials  
 Coffee Breaks  
 Lunch

# Technical Service Training

## MicroTech® III Controls, Rooftop, Rebel & Self-Contained & VFD Service Course Schedule

Course Title	Tuition	Training Center	Course Length	Register by	2018 Dates
<b>MicroTech® III Service - Applied Air</b> <i>Prerequisite for Rooftop, Rebel &amp; Self-Contained Courses</i>  <b>Training Locations:</b> Daikin AC University - Irvine, CA Daikin Applied - Plymouth, MN Daikin Applied - Marietta, GA Daikin Applied - Davie, FL	\$550	Marietta, GA Plymouth, MN Plymouth, MN Plymouth, MN Plymouth, MN Plymouth, MN Irvine, CA Davie, FL	2 full days	Jan 19 Mar 2 Mar 30 Apr 13 Aug 24 Sep 14 Oct 5 Oct 19	Feb 5 - 6 Mar 19 - 20 Apr 16 - 17 Apr 30 - May 1 Sep 10 - 11 Oct 1 - 2 Oct 22 - 23 Nov 5 - 6
Rooftop Service (Maverick® & Roofpack®) <b>MicroTech® III Service (prerequisite)</b>	\$550	Plymouth, MN Plymouth, MN Davie, FL	2 full days	Mar 2 Sep 14 Oct 19	Mar 21 - 22 Oct 3 - 4 Nov 7 - 8
Rebel® Rooftop Service (DPS) <b>MicroTech® III Service (prerequisite)</b>	\$550	Marietta, GA Plymouth, MN Plymouth, MN Irvine, CA	2 full days	Jan 19 Mar 30 Aug 24 Oct 5	Feb 7 - 8 Apr 18 - 19 Sep 12 - 13 Oct 24 - 25
Self-Contained Service (SWP, SWT) <b>MicroTech® III Service (prerequisite)</b>	\$550	Plymouth, MN	2 full days	Apr 13	May 2 - 3
<b>VFD Installation &amp; Operation - NEW</b>	\$250	Plymouth, MN	1 full day	Jan 19 Mar 2 Mar 30 Apr 13 Aug 24 Sep 14	Feb 5 Mar 23 Apr 20 May 4 Sep 14 Oct 5



## Technical Service Training

### Rooftop Service Course

**Course Description:** The Rooftop Service Course is structured to provide classroom instruction, demonstrations and exercises designed to familiarize the student with the product features, installation requirements, operation, maintenance and service procedures for Daikin Applied Rooftops.

To get the most from the course, the student should have an understanding of the refrigeration cycle, basic electronics and simple control circuits. The course will use these basic concepts to develop an understanding of the Daikin Rooftop products. It is recommended all students review IM-893 [CLICK HERE](#) , and IM-1058 [CLICK HERE](#) prior to the start of class.

The program for Rooftop Service training is two full days of intensive training.

**Prerequisite: MicroTech® III Controls Course is required prior to attending the Rooftop Service Course (dates & locations below)**

**Mar 19 - 20      Daikin Applied, Plymouth, MN**

**Oct 1 - 2         Daikin Applied, Plymouth, MN**

**Nov 5 - 6         Daikin Applied, Davie, FL**

#### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Install and commission Daikin Rooftop units using standard methods
- Identify and distinguish the purpose and function of Rooftop components
- Describe unit sequence of operation in all modes and states
- Navigate and modify adjustment settings and parameters in MicroTech® III (MT III) controller, and operate MT III to meet job specifications
- Utilize electrical meters, wiring diagrams, and MT III controller for unit diagnostics and troubleshooting
- Demonstrate preparation, set-up, and operation for Daikin Rooftop gas, electric and hot-water heat
- Prepare and report accurate commissioning data on Daikin Warranty Registration Form
- Perform proper preventative maintenance per the Daikin Operations Manual



#### Course Locations

Daikin Applied  
Plymouth, MN

Daikin Applied  
Davie, FL

#### Course Fee

\$550

#### Course Length

2 full days

#### CEU's Offered - 1.3

Yes    No

#### Testing Required

Yes    No

#### 2018 Course Schedule

Mar 21 - 22 - Plymouth, MN

Oct 3 - 4 - Plymouth, MN

Nov 7 - 8 - Daikin, Davie, FL

#### Registration Deadline

Mar 2

Sep 14

Oct 19

The training fee is 10% higher for registrations received after the deadline.

#### Daikin Learning Institute to Provide

Instruction Materials

Coffee Breaks

Lunch

## Technical Service Training

### Course Location

Daikin Applied  
Plymouth, MN

Daikin Applied  
Marietta, GA

Daikin University  
Irvine, CA

### Course Fee

\$550

### Course Length

2 full days

### CEU's Offered - 1.3

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

Feb 7 - 8 - Marietta, GA  
Apr 18 - 19 - Plymouth, MN  
Sep 12 - 13 - Plymouth, MN  
Oct 24 - 25 - Irvine, CA

### Registration Deadline

Jan 19  
Mar 30  
Aug 24  
Oct 5

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch

## Rebel® Rooftop Service Course

**Course Description:** The Rebel® Rooftop Service Course is structured to provide classroom instruction, demonstration, and exercises designed to familiarize the student with the product features, installation requirements, and service procedures for the Daikin Rebel® Rooftop units including Rebel Inverter technology.

To get the most from the course, the student should have an understanding of the refrigeration cycle, basic electronics, and simple control circuits. The course will use these basic concepts to develop an understanding of the Daikin Rebel® Rooftop products. It is recommended all students review IM-1125 [CLICK HERE](#), and OM-1141 [CLICK HERE](#), prior to the start of class.

The program for Rebel® Rooftop Service training is two full days of intensive training.

**Prerequisite: MicroTech® III Controls Course is required prior to attending the Rebel® Rooftop Service Course (dates & locations below)**

Feb 5 - 6	Daikin Applied, Marietta, GA
Apr 16 - 17	Daikin Applied, Plymouth, MN
Sep 10 - 11	Daikin Applied, Plymouth, MN
Oct 22 - 23	Daikin University, Irvine, CA

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Install and commission Daikin Rebel Rooftop units using standard methods
- Identify and distinguish the purpose and function of Rebel components
- Describe Rebel Inverter technology and explain unit sequence of operation in all modes and states
- Navigate & modify adjustment settings and parameters in MicroTech® III (MT III) controller and operate MT III to meet job specifications
- Utilize electrical meters, wiring diagrams, and MT III controller for unit diagnostics and troubleshooting
- Demonstrate preparation, set-up and operation for Daikin Rebel gas, electric, and hot-water heat
- Prepare and report accurate commissioning data on Daikin Warranty Registration Form
- Perform proper preventative maintenance per the Daikin Operations Manual



## Technical Service Training

### Self-Contained Service Course

**Course Description:** The Self-Contained Service Course is structured to provide classroom instruction, demonstrations and exercises designed to familiarize the student with the product features, installation requirements and service procedures for Daikin Self-Contained units.

To get the most from the course, the student should have an understanding of the refrigeration cycle, basic electronics and simple control circuits. The course will use these basic concepts to develop an understanding of the Daikin Self-Contained product. It is recommended that all students read/review IM-1032 [CLICK HERE](#), prior to the start of class.

The program for Self-Contained service training is two full days of intensive training.

**Prerequisite: MicroTech® III Controls Course is required prior to attending the Self-Contained Service Course (dates & locations below)**

**Apr 30-May 1 Daikin Applied, Plymouth, MN**

#### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Install and commission Daikin Self-Contained (SWP & SWT) units using standard methods
- Identify and distinguish the purpose and function of Self-Contained components
- Describe unit sequence of operation in all modes and states
- Navigate & modify adjustment settings and parameters in MicroTech® III (MT III) controller, and operate MT III to meet job specifications
- Utilize electrical meters, wiring diagrams, and MT III controller for unit diagnostics and troubleshooting
- Demonstrate the preparation, set-up, and operation for Daikin Self-Contained gas, electric, and hot-water heat
- Prepare and report accurate commissioning data on Daikin Warranty Registration form
- Perform proper preventative maintenance per the Daikin operations manual



#### Course Location

Daikin Applied  
Plymouth, MN

Daikin Applied  
Marietta, GA

#### Course Fee

\$550

#### Course Length

2 full days

#### CEU's Offered - 1.3

Yes  No

#### Testing Required

Yes  No

#### 2018 Course Schedule

May 2 - 3 - Plymouth, MN

#### Registration Deadline

Apr 13

The training fee is 10% higher for registrations received after the deadline.

#### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch



## Technical Service Training

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### Course Location

Daikin Applied  
13600 Industrial Park Blvd.  
Plymouth, MN 55441  
PH: 763-553-5324

### Course Fee

\$250

### Course Length

1 day

### CEU's Offered - 0.7

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

Feb 5  
Mar 23  
Apr 20  
May 4  
Sep 14  
Oct 5

### Registration Deadline

Jan 19  
Mar 2  
Mar 30  
Apr 13  
Aug 24  
Sep 14

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute will provide

Instruction Materials  
Coffee Breaks  
Lunch

## VFD Installation & Operation Course

The VFD Installation & Operation Course will provide the necessary skills to install, start-up, commission and troubleshoot Daikin MD-4 and MD-5 VFDs. Participants will learn VFD specifications, features/benefits, and options, proper installation methods and diagrams, setup and programming of the VFD including macros, and troubleshooting using VFD diagnostic menus.

At the completion of this course, the student will be certified to install, start and commission these Daikin VFDs.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Understand the ABB VFD components and their functions and the difference between the MD-4 and MD-5
- Apply the installation process, wiring and programming of the VFD
- Comprehend the commissioning of the VFD
- Explain start-up faults and troubleshooting steps
- Utilize the support structure for Daikin Applied

## Daikin Learning Institute Safety Statement

The goal of Daikin Learning Institute is to provide product specific training and information necessary to establish a high level of proficiency in operating and servicing Daikin products. While product specific safe work procedures are built into our training program, knowledge and formal training of an applicable safe working culture, competency, practices and procedures for working in the HVAC field is the obligation of the employer and individual prior to attending Daikin Applied equipment training.

## Technical Service Training

### Course Location

Daikin Applied  
13600 Industrial Park Blvd  
Minneapolis, MN 55441

### Course Fee

\$550

### Course Length

2 days

### CEU's Offered - 1.3

Yes  No

### Testing Required

Yes  No

### 2018 Course Schedule

March 14 - 15  
Sep 18 - 19

### Registration Deadline

Feb 23  
Aug 31

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute to Provide

Instruction Materials  
Coffee Breaks  
Lunch

## Water Source Heat Pump Course

**Course Description:** Get all the information you need about Daikin's Water Source Heat Pumps, MicroTech® III and Mark IV controls. This course is two days of intensive training. This course is designed to teach the experienced service technician to commission, maintain, operate and troubleshoot Water Source Heat Pumps, MicroTech® III, and Mark IV controls.

This program is structured to provide basic classroom instruction to familiarize the student with the operation of the new Water Source Heat Pumps and the fundamentals of MicroTech III® controls. It is assumed that the student understands basic Water Source Heat Pump operation and HVAC systems. It is recommended that all students read/review IM-1139 [CLICK HERE](#) and IM-1059 [CLICK HERE](#), prior to the start of class

Classroom sessions include hands-on exercises using controls simulators and actual operational units.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Define and analyze basic unit design
- Identify SmartSource WSHP
- Identify Enfinity WSHP
- Identify Console WSHP
- Identify Vertical Stack WSHP
- Perform unit Installation
- Identify Horizontal WSHP
- Identify Vertical WSHP
- Identify Console WSHP
- Identify Vertical Stack WSHP
- Check Test and Start
- Navigate MicroTech® III
- Navigate Mark IV
- Assess ECM Motor Operation and Speed Settings Options
- Describe unit demo



## Technical Service Training

### Course Fee

\$550

### Course Length

2 days

### CEU's Offered - 1.5

Yes  No

Testing Required

Yes  No

### 2018 Course Schedule & Locations

#### April 24-25, 2018

Gardiner

31200 Bainbridge Road  
Solon, OH

#### Registration deadline:

Monday, Apr 2, 2018

#### May 15-16, 2018

Air Reps

3290 146th Place SE  
Suite F

Bellevue, WA 98007

#### Registration deadline:

Monday, Apr 30, 2018

#### November 6-7, 2018

Daikin Applied

13600 Industrial Park Blvd.  
Plymouth, MN 55441

PH: 763-553-5324

#### Registration deadline:

Friday, October 19, 2018

The training fee is 10% higher for registrations received after the deadline.

### Daikin Learning Institute will provide

Instruction Materials  
Coffee Breaks  
Lunch

## Installing & Configuring Intelligent Solutions®

**Course Description:** Learn about system control solutions offered by Daikin Applied Intelligent Solutions®, including Intelligent Systems™ (IS), Intelligent Equipment® (IE), VAV terminal unit controls and systems, BACnet thermostat offerings, and BAS integration capabilities for Daikin Applied unit controllers. The focus of this course is the installation and configuration of these solutions, with an emphasis on hands-on experience throughout each session.

**Course Level:** Beginner-Intermediate

### Who Should Attend:

- Technicians with experience in the industry but limited knowledge of Daikin Applied system controls solutions
- Technicians new to the industry

**Prerequisite Courses or Skills:** Some knowledge of Daikin Applied equipment (Applied Air, Applied Terminal, and Chillers)

### Learning Outcomes:

Upon successful completion of this course, attendees will be able to:

- Understand Intelligent Systems (IS), including features, applications, and hardware
- Demonstrate the installation and commissioning of IS (including System Manager, I/O Manager, and Loop Water Manager)
- Practice troubleshooting of IS and using the IS user interface
- Describe the features, benefits, and applications for VAV Box and VAV system controls
- Perform troubleshooting of VAVs
- Distinguish the features, applications, compatibility, and retrofit system opportunities of the BACnet thermostat
- Understand Intelligent Equipment (IE), including features, applications, and hardware
- Install IE retrofit kits
- Perform commissioning of IE using the IE technical user interface
- Practice troubleshooting of IE hardware and software
- Recognize BAS integration capabilities for Daikin Applied unit controllers
- Identify the support mechanisms available for Intelligent Solutions and BAS integration to Daikin Applied equipment

## Technical Service Training

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### Off-Campus Training in Your Area

Looking for Convenient, Professional Training on Your Daikin Commercial HVAC Equipment?

#### **We Can Come to Your Location!**

For your convenience, the Daikin Learning Institute offers commercial HVAC equipment operation and maintenance training programs at your location. Our most popular training courses are available in your facility, at flexible schedules based on instructor availability. Class fees are established based on the number of course attendees and travel required. Note that a minimum number of students is required.

- Centrifugal Maintenance & Operation Course
- Screw Chiller Maintenance & Operation Course
- Commercial Scroll Compressor Chiller Unit Maintenance & Operation Course
- Magnitude® WMC Magnetic Bearing Model Chiller Maintenance & Operation Course
- Magnitude® WME Magnetic Bearing Chiller Maintenance & Operation Course
- Rooftop Packaged Unit, Rebel and Self-Contained Unit Operation & Maintenance Courses
- MicroTech® II and MicroTech III Controls for Applied Air Systems

**Contact the Daikin Learning Institute to schedule off-campus training at your location.**

Daikin Applied  
Daikin Learning Institute  
P.O. Box 2510  
Staunton, VA 24402-2510  
Phone: 540.248.9646  
Fax: 763.509.7663  
email: [service.training@daikinapplied.com](mailto:service.training@daikinapplied.com)

Visit the DaikinApplied website, [www.DaikinApplied.com](http://www.DaikinApplied.com) for current schedules.

# Technical Service Training

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## Off Campus Training Terms & Conditions

Daikin Learning Institute will perform training at a customer's facility under the following terms and conditions.

### **Recording of Classes**

Audio or video recording of Training sessions may be made only with Daikin's prior express written permission. Any permitted recordings are subject to these terms and conditions.

### **Content Rights**

All materials relating to training remain Daikin's property. Copies or distribution of such material may be made only with Daikin's express prior written consent.

### **Payments**

All training sessions will be billed upon order. Payments will be subject to Daikin's standard terms and conditions. If payment is past due at the scheduled start date of the training, the instructor will perform training at Daikin's sole discretion.

### **Responsibilities**

The customer is responsible for facilities, meals and other logistics related to the training unless prior arrangements have been made with Daikin. Daikin assumes no responsibility for these items.

Daikin will provide training and materials for the number of registered participants. There will be an additional charge for additional students, based upon the original price per student.

### **Scheduling**

Training is by appointment only. Availability of instructors is at Daikin's sole discretion.

### **Content**

The purpose of training is to provide customers with information valuable to the operation or maintenance of their equipment. Daikin retains the right to determine appropriate content for the agreed-upon topic.

## Warranty and Disclaimer

Training information will be materially similar to that used by Daikin Applied in training its own technicians. In the event it is not, Daikin will provide corrected, updated, or additional information, or, at its option, refund a pro rata portion of the price. THIS IS THE ONLY WARRANTY AND THE CUSTOMER'S ONLY REMEDY WITH REGARD TO TRAINING. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED. WITHOUT LIMITING THE FOREGOING, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES WILL DAIKIN BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Because of the variation among participants' experience, prior training, and learning abilities, Daikin does not warrant that any particular student will attain any particular level of expertise or competence, and does not warrant any particular results of the training. The customer must satisfy itself as to the applicability and sufficiency of the training for its facility and resources. The customer will defend, indemnify, and hold Daikin harmless against any claim arising out of or related to training, and will waive subrogation of any such claim. Daikin may modify these terms and conditions at any time, in its sole discretion, and such modifications shall be effective immediately upon posting.



## Daikin Learning Institute Service Training Registration Form

Course Title: \_\_\_\_\_  
Dates: \_\_\_\_\_  
Course Location: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Student Name: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_  
Submitted By: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

### **Please Specify Payment Option Below And Complete All Information.**

Company Name: \_\_\_\_\_  
Billing Address: \_\_\_\_\_  
Contact: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

PURCHASE ORDER: (Purchase Order MUST accompany registration)  CHECK (Due prior to start of class)

CREDIT CARD:  Master Card  VISA  American Express  Discover (Novus)

Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Cardholder Printed Name: \_\_\_\_\_

### **Payment is due in advance or student(s) will not be admitted.**

Mail copy of application form and check to:  
Daikin Applied/ Attn: Daikin Learning Institute  
P.O. Box 2510  
Staunton, VA 24402-2510

Fax application, copy of purchase order/check to:  
Linda Custer at 763-509-7663  
E-mail to:  
[linda.custer@daikinapplied.com](mailto:linda.custer@daikinapplied.com)

*Daikin Learning Institute reserves the right to make changes or alternations to the course content or schedule, and is not responsible for fees associated with changing dates or cancellation of classes. In the unlikely event of a schedule change or cancellation, our best effort will be made to notify all registrants in a timely manner.*



Notes:

