



Centrifugal Chiller Service and Repair Course



Service, repair, maintenance, trouble shooting, and performance analysis of standard, non-magnetic Daikin Centrifugal chillers

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



Centrifugal Chiller Service & Repair Course

Course Location

Daikin Applied
207 Laurel Hill Road
Verona, VA 24482
PH: 540-248-9646
FAX: 763-509-7663

Course Fee

\$1,600 - week 1
\$3,200 - week 2

Course Length

4.5 days (each week)

CEU's Offered - 3

Yes No

Testing Required

Yes No

2017 Course Schedule

May 1 - 5

Dec 4 - 8

Registration Deadline

Apr 14

Nov 17

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

Daikin Learning Institute will provide

Instruction Materials
Coffee Breaks
Lunch
Group Dinner on first night

Centrifugal Chiller Service Course

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 week 1 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 electronic expansion valve control
- Operate MicroTech[®] controls during hands-on lab sessions
- Describe MicroTech[®] system software and operation
- Identify components of compressor starters and solid-state 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.

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.

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Course Fee

\$1,600 - week 1
\$3,200 - week 2

Course Length

4.5 days (each week)

CEU's Offered - 3

Yes No

Testing Required

Yes No

2017 Course Schedule

May 8 - 12

Dec 11 - 15

Registration Deadline

Apr 14

Nov 17

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

Daikin Learning Institute will provide

Instruction Materials
Coffee Breaks
Lunch

Centrifugal Chiller Repair Course

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.

Learning Outcomes:

Upon successful completion of the week 2 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.





Centrifugal Chiller

Service & Repair Course Application Form

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

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.