



# Principles of HVAC



*The Science of Building Loads and Thermal Comfort*



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

# Principles of HVAC

## 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

## 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



## 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.*