



# Principles of Refrigeration



*Changing the way you think about Refrigeration*



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



# Principles of Refrigeration

## 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

## 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



## 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.*