

Industrial Refrigeration Best Practices Training

Oct. 12, 2023

8 a.m. to 4 p.m.

Idaho Power Headquarters (CHQ) or WebEx
1221 W. Idaho St. Boise, ID 83702

Class is free for Idaho Power customers.

The class will be held in-person at the Idaho Power Headquarters in downtown Boise, or you may elect to join virtually. A link will be provided for all registrants.

This is a one-day course focused on industrial refrigeration compressors, condensers, and evaporators. Attendees will learn how refrigeration systems use energy and can be adjusted to improve efficiency.

Key Learning Objectives

- Compressors
 - Recall the role of compressors and the impact of lift and part load operation
 - Evaluate compressor operation and identify potential energy penalties
- Condensers
 - Recall the role of condensers and their impact on compressor power
 - Recall the value of wet condensing, fan VFDs, water treatment and regular inspections
- Evaporators
 - Recall the role of evaporators and their impact on system performance
 - Identify the causes of poorly performing evaporators
 - Perform adjustments to defrost for improved cooling and reduced energy use

Who should attend?

- Refrigeration operators and chief engineers
- Maintenance engineers
- Managers, executive, system/process engineers

Agenda

8 a.m.	Introduction and objectives Opportunity Idea Page Plant Energy Basics Fundamentals of Refrigeration Sketch Refrigeration System Compressor Basics Compressor Lift and Activity Compressor Part Load Compressor Maintenance Opportunity	12:30 p.m.	Condenser Basics and Review Condenser Maintenance Activity Condenser Capacity Control and Activity Compressor/Condenser Energy Balance
		2 p.m.	Evaporator Basics and Review Identify and Troubleshoot Poor Performance Evaporator Valve Failure Activity Troubleshoot Evaporator Examples
	Break – Lunch	4 p.m.	Questions and Adjourn

Instructor

Steve Koski has a wide range of experience providing technical engineering services, with a focus on industrial refrigeration, cold storage and compressed air. Since 2001, he has completed over 500 projects and led over 60 facility recommissioning efforts for industrial customers across North America. Steve has led several strategic energy management engagements and taught nearly 30 refrigeration and compressed air trainings. He has a BS in Mechanical Engineering and has been a professional engineer since 2002. Steve is also a certified AIRMaster+ Specialist.

Registration

- ☐ I will join the seminar in-person
- ☐ I will join the seminar virtually

First Name	Last Name	Title	Phone
Company Name			Email Address
Mailing Address			City, State ZIP
Vehicle Make	Vehicle Model	License Plate	State

Electrical License Number (if needing CEUs): _____

*Vehicle information is only needed for in-person attendees that would like free parking in Idaho Power Company lots for the day.

Registration deadline is Friday, Sept. 29.

To register, email, call or mail registration form to:

Phone: 208-388-5099

Email: training@idahopower.com

Idaho Power c/o Andee Morton 1221 W. Idaho St. Boise, ID 83702

Questions?

Visit idahopower.com/training or contact Idaho Power at 208-388-5099 or training@idahopower.com.