

Refrigeration Fundamentals and Regulations

Refrigeration can be a complex subject; however we aim to keep it as simple as we can. In this course, refrigeration will be discussed as a part of the whole intricate cooling system within a facility. The purpose of this course is to provide a comprehensive overview of refrigerants, including a look into the federal, state and local requirements pertaining to refrigerant management. The instructor will utilize lectures, visual aids, case history examinations, and facility walkthroughs to provide the most in depth look at refrigeration. Anyone who engages in or who are associated with the cooling systems at their work place should attend this course.

Duration: 8 hours

REFRIGERANT FUNDEMENTALS

Chiller Operations Overview
Cooling Loop Basics
Heat Rejection
Refrigerant Chemistry
Refrigerant Applications
The Three R's
Industry Jargon and Definitions

FACILITY SPECIFIC INFORMATION

Industrial vs. Commercial Applications Comfort Cooling Facilities Where Does Your Facility Fall EPA Rules and Regulations

REFRIGERANT MANAGEMENT

Reporting Requirements
Local, State & Federal
Vendor's Management Responsibilities
Using Software Programs for Tracking
Refrigerant Tracking
Threshold Levels

HANDLING, STORAGE & SAFETY

DOT Regulations
Site Allowances
Proper Personal Protective Equipment
Signage and Storage Areas
Reclamation Units

REFIGERANT DETECTION

Monitoring Systems
Installation and Functionality
PPM Levels
Alarm Sequences
Safe Entrance and Egress
First Aid

OPERATIONS

Industry Best Practices
Vendor Interactions
Common Industry Equipment Overview