

# Special Regional Training

provided by the

## International Training Fund

and in partnership with

## Johnson Controls Training Institute

# SPECIALIZED TRAINING COURSES

### YK High Pressure Centrifugal Operations / Maintenance

#### Course Topics:

- Centrifugal Compressor Theory of Operation
- YK Chiller Design and Component Functionality
- YK Seasonal Start-up
- OptiView Basics Application, Terminology
- OptiView Architecture Component Identification, Component Location
- OptiView Operation, Screen Navigation, Interpretation and Modification
- Maintenance
- Troubleshooting
- Warranty
- OptiView Simulator Hands-on Labs
- Evaluating Chiller Performance

READ MORE

### YT/YK Centrifugal Chiller and Compressor Overhaul

#### Course Topics:

- Refrigeration Theory
- Centrifugal Compressor Theory of Operation
- YT/YK Chiller Design and Component Functionality
- YT/YK Maintenance
- Seasonal Start-up
- Unit Troubleshooting
- Compressor Teardown/Reassembly
- OptiView Basics
- OptiView Operation
- OptiView Start-up and Troubleshooting
- High Speed Thrust Bearing Limit Switch
- Refrigerant Level Control
- Oil Pump
- Hands-on Labs

READ MORE

### YVAA Air Cooled Screw Chiller

#### Course Topics:

- Chiller Layout and Components
- Safety, Handling
- Installation
- Commissioning
- Start-up
- Operation/Maintenance
- Troubleshooting
  - VSD
  - Unit
- Simulation Exercises

READ MORE

### YCAV Air Cooled Rotary Screw Liquid Chillers

#### Course Topics:

- Screw Chiller Basics
- Basic Electronics
- VSD Basics
- VSD and Control Panel Architecture
- Operation and Sequencing
- Latitude Simulator Exercises
- Information and Safety, Handling and Storage
- Installation
- Commissioning
- VSD Troubleshooting
- Maintenance
- Unit Troubleshooting
- Hands-on-Labs

READ MORE

Classes will fill up fast and are first-come first-choice. If you have any questions, contact the UA Registrar, [cathym@uanet.org](mailto:cathym@uanet.org) or call (410) 269-2000.

To register for any of the courses listed above, please fill out the registration form and email to [cathym@uanet.org](mailto:cathym@uanet.org) or fax to (410) 267-0382.

REGISTER



Three Park Place  
Annapolis, MD 21401  
Telephone: (410)-269-2000



## YK High Pressure Centrifugal Operations/Maintenance

---

Students will learn about the internal workings of the YK high pressure centrifugal single-stage compressor, oil return system, OptiView Control Center and other components and subsystems. A comprehensive review of the preventive maintenance schedule and system capacity checkout procedure is also covered.

**Date:** October 14-16, 2014

**Location:** Ann Arbor, Michigan

Washtenaw Community College  
Great Lakes Regional Training Center  
4800 E Huron Drive  
Ann Arbor, MI 48105

**Hotel:** Ann Arbor Regent Hotel and Suites

2455 Carpenter Road  
Ann Arbor, MI 48108  
(734) 973-6100  
<http://www.annarborregent.com>

Ann Arbor Area Convention & Visitors Bureau  
<http://www.visitannarbor.org>

[HOME](#)

[REGISTER](#)

## YT/YK Centrifugal Chiller and Compressor Overhaul\*

---

Service personnel will become familiar with the operation and maintenance of centrifugal systems. Students will review R-11, R-123, R-22 and R-134a single stage centrifugal chillers. They will also learn the internal workings of the compressor, oil return system, lube circuit, purge and heat exchangers. The OptiView Control Center plus preventive maintenance and system checkout procedures are also addressed along with a hands-on teardown and rebuild of a YK centrifugal compressor.

**\*Dress code: Steel-toed, leather shoes and long pants are required.**

**Date:** January 12-16, 2015

**Location:** Houston, Texas

10644 West Little York Road

Houston, TX 77041

*(Located approximately 22 miles from the George Bush Intercontinental Airport and 27 miles from Houston/Hobby Airport)*

**Hotels:** Crown Plaza

12801 Northwest Freeway

Houston, TX 77040

(713) 462-9977

**Comfort Suites Houston**

10444 Clay Road

Houston, TX 77041

(832) 467-1200

**Comfort Inn**

7887 W Tidwell

Houston, TX 77040

(713) 690-1493

**Hampton Inn**

12909 Northwest Freeway

Houston, TX 77040

(713) 939-7100

**Houston, Texas Convention and Visitor's Guide**

[www.visithoustontexas.com](http://www.visithoustontexas.com)

HOME

REGISTER

## YVAA Air Cooled Screw Chiller\*

---

This three-day course teaches experienced service technicians about the YVAA Chiller. The course will include features of this unit and the differences in installation, operation and maintenance from the YCAV.

### Recommended Prerequisites:

- Working knowledge of the YCAV/YCIV Chiller
- Working knowledge of VSDs
- Understanding of basic electronics

**\*Dress code: Steel-toed, leather shoes and long pants are required.**

**Date:** February 24-26, 2015

**Location:** Sparks, Maryland

60 Loveton Circle

Sparks, MD 21152

*(Located in rural Baltimore County off of I-83 North, approximately 35 miles from Baltimore Washington International Airport)*

**Hotels:** Embassy Suites

213 International Circle

Hunt Valley, MD 21030

(410) 584-1400

**Courtyard Baltimore Hunt Valley**

221 International Circle

Hunt Valley, MD 21030

(410) 584-7070

**Maryland Office of Tourism**

(866) 639-3526

[www.mdifun.org](http://www.mdifun.org)

HOME

REGISTER

## YCAV Air Cooled Rotary Screw Liquid Chillers\*

---

This three-day course teaches service personnel about the YCAV Chiller features, including the screw compressor, system ancillary components, start-up procedures, unit operation and maintenance.

**\*Dress Code: Closed-toed, leather shoes and long pants are required.**

**Date:** March 24-26, 2015

**Location:** Phoenix, Arizona

Gateway Community College

108 N 40th Street

Phoenix, AZ 85034

*(Located about one mile north of the Phoenix Sky Harbor International Airport)*

**Hotels:** Hilton Garden Inn

3838 East Van Buren Street

Phoenix, AZ 85008

(602) 306-2323

**Holiday Inn and Suites - Phoenix Airport**

3220 S 48th Street

Phoenix, AZ 85040

(480) 543-1700

**Hampton Inn**

601 North 44th Street

Phoenix, AZ 85008

(602) 267-0606

**Residence Inn - Phoenix Airport**

801 North 44th Street

Phoenix, AZ 85008

(602) 273-9220

**Arizona Office of Tourism**

[www.arizonaguide.com](http://www.arizonaguide.com)

HOME

REGISTER

# JOHNSON CONTROLS TRAINING INSTITUTE SPECIALIZED TRAINING COURSE REGISTRATION

Local Union \_\_\_\_\_ UA Card No. \_\_\_\_\_

First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_ Last Name \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Country \_\_\_\_\_ Cell Phone \_\_\_\_\_

Email Address \_\_\_\_\_

Company \_\_\_\_\_

Contractor \_\_\_\_\_

Contractor's Phone No. \_\_\_\_\_

I would like to register for the following specialized training course(s):

- October 14-16, 2014 — YK High Pressure Centrifugal Operations/Maintenance  
Ann Arbor, Michigan
- January 12-16, 2015 — YT/YK Centrifugal Chiller and Compressor Overhaul  
Houston, Texas
- February 24-26, 2015 — YVAA Air Cooled Screw Chiller  
Sparks, Maryland
- March 24-26, 2015 — YCAV Air Colled Rotary Screw Liquid Chillers  
Phoenix, Arizona

*After completing this form, print and email to [cathym@uanet.org](mailto:cathym@uanet.org) or fax to (410) 267-0382.*

## ITF Office Use Only

Voucher No. \_\_\_\_\_ Date Issued \_\_\_\_\_

Comments \_\_\_\_\_