



Training Event Announcement

Servicing XL Heat Pump Systems (Includes Lite Port™ Session)

Technicians attending this training program learn how to service the refrigeration cycle and defrost system. The course covers basic heat pump theory and product specific test procedures. R-22 and R-410A models are included.

Learn to fine tune the performance of Trane heat pumps. This course teaches technicians adjustment processes that ensure proper cooling mode, heat mode, and defrost mode operation. If the system does not operate to factory specified levels, learn the test procedures that are used to find and correct the problem.

Key highlights of the program include:

- Refrigeration circuit troubleshooting procedures.
- Defrost control operation and test procedures.
- Testing scroll and reciprocating compressors.
- Air volume measurement using ESP and Temperature Rise
- Charging procedures for cool and heat mode cycles.
- Understanding the relationship between the refrigeration cycle and the defrost control board. (Solving nuisance flash code displays.)



Program Outline: Test Procedures and Skill Development

The materials received by attending the program include:

A DVD featuring repair procedures for both refrigeration cycle and defrost system problems.

A field repair guide covering refrigeration and defrost control test procedures.

About the Instructor



Mike Prokup
Prokup Media.

Author of many industry training programs available in CDROM, and DVD format. Mike also produces the new Lite Port Pocket PC diagnostic software for use with Trane and American Standard products.

Seminar presenter specializing in technical training for HVAC Service Technicians.

President of Prokup Media, technical publisher serving HVAC Industry since 1994.

Heat pump Performance

- You have to get it to move it
- Performance data "Understanding OAT versus Capacity"
- Balance point

Service Facts Performance Curves

- Plotting operating performance Cool Mode
- Plotting operating performance Heat Mode

Indoor Air Volume and Equipment Capacity Measurement

- Cool Mode
- Heat Mode
- Measuring Air Volume
- Measuring Cooling Capacity
- Measuring Heating Capacity

Cooling Cycle Operation and Service Procedures

- Refrigerant cycle map
- Identifying problems
- Compressor good or bad?

Heating Cycle Operation and Service Procedures

- Refrigerant cycle map
- Identifying problems
- Compressor good or bad?
- Charge compensators and charging

Defrost Operation and Service Procedures

- Components of the demand defrost system
- Conditions for defrost to occur
- Conditions for defrost to terminate
- Using the jumper pins to check the board
- Checking the sensors for calibration
- Diagnostic LED and Lite Port Information

Location:

Date:

Time:

To Register Call:

Cost Per Person:

Don't want to attend but want materials: