



**CHAMPION**  
HEATING AND COOLING

## Air Conditioning Diagnostics & Duct Design Airflow

### SESSION 1

#### R410A and R22 A/C Diagnostics

The air conditioning program is an in-depth program designed to take technicians of all skill levels to a better understanding of refrigeration cycle diagnostics.

*This program is a 4-hour course.*

Key topics will include the following:

- Evaporator Thermal Load & System Pressures
- Saturation Temperature
- The Sling and Digital Psychrometer
- Expansion Valve (TXV)
- Fixed Orifice Metering Device
- Superheat & The Evaporator Coil
- Subcooling & The Condenser Coil
- System Parameters (Mechanical)
- Diagnosing System Problems (A/C)

### SESSION 2

#### Duct Design Airflow

- Airflow Data
- Airflow Formula Guide
- Square Area Formulas
- Airflow Measurement Rotating Vane or Hot Wire Method
- Airflow Measurement External Static Method
- Airflow Measurement Temperature Rise Method
- Return Filter Grill Airflow Capabilities

Factory Training with **Joel Lunsford**  
*JCI/Champion Regional Technical Service Manager*

**Thursday, March 22, 2018**

**Check In 7:30 - 8:00 am | Session One 8:00 am - 12:00 pm**

**Lunch 12:00 - 1:00 pm | Session Two 1:00 - 5:00 pm**

**Security Plumbing & Heating Supply**

475 Central Avenue, Albany, NY 12206

**Registration Fee:**

**EITHER Session 1 OR Session 2 \$35**

**BOTH Sessions \$60**

Attend 1 Session - get a **\$50 OFF** certificate\*

Attend Both - get a **\$100 OFF** certificate\*

\*Certificates are for the purchase of Gray Metal or Champion products from Security Plumbing & Heating Supply only.

CERTIFICATE EXPIRATION DATE: 6/22/2018



**Register now! Space is limited!**

**Session 1**

**Session 2**

**Both**

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

REGISTRATION FEE INVOICE #: \_\_\_\_\_

OFFICE: \_\_\_\_\_

CELL: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

Please submit this registration form to Todd Smith, Branch Manager - Security Plumbing & Heating Supply, 475 Central Avenue, Albany, NY 12206 | (518) 489-2554 | todds@secsupply.com before March 6, 2018.