



Supply Company, Inc.

SINCE 1936

# CORE REFRIGERATION

REGISTRATION

On May 1st, Duncan Supply and American Standard welcome back Michael Prokup from Prokup Media to Warsaw. Prokup Media has partnered with American Standard placing Prokup Media at the forefront of industry technology developments.

Technicians attending this program will be taught the fundamental engineering behind the refrigeration cycle and how to diagnose technical problems related to the refrigeration cycle.

Refrigerant physical properties, evaporator suction pressure/saturation temperature design limits, line losses, compressor displacement, condensers and condensing pressures are explained. This program will also teach troubleshooting and cycle analysis of both TXV and fixed metering systems, proper filter drier selection, and managing acid in the refrigeration circuit.

This two-day program focuses on developing a complete troubleshooting procedure that not only ends in proper diagnosis, but also teaches technicians how to identify application engineering errors that will cause potential future callbacks and failures.

**This course will cover:**

- Air properties and their influence upon the refrigeration system
- Why evaporator coil matches are critical
- How to calculate the theoretical capacity of a saturated refrigeration cycle
- How suction pressure and discharge pressure changes affect the system capacity
- How TXV metering provides better overall control
- How suction lines drop system capacity
- Troubleshooting the evaporator circuit using suction vapor superheat measurements
- Identifying metering piston problems
- Diagnostic test procedure: TXV and EEV
- Suction line sizing procedures
- Troubleshooting condenser coil circuits including parallel and subcooling loops
- Liquid subcooling levels
- Liquid line sizing, lift and distance limits
- Pressure drop limits and identifying restrictions
- Charge procedures for fixed and TXV systems
- Analyzing the complete system & making a confident diagnosis
- Evacuation procedure

*Note: This course allows for 5 hours toward NATE re-certification.*

**Wednesday, May 1st**  
**Sign-in: 8:00 a.m. - 8:30 a.m.**  
**Class: 8:30 p.m. - 3:00 p.m.**

**Wyndham Garden**  
2519 E Center St  
Warsaw, IN 46580

Company Name: \_\_\_\_\_ Act # \_\_\_\_\_  
 Person (s) Attending \_\_\_\_\_ PO # \_\_\_\_\_  
 Email \_\_\_\_\_ Phone # \_\_\_\_\_

**Cost: \$175 per attendee**

***Please respond NO later than Thursday, March 21st.***  
***Fax or email: (317) 264-6689 or [training@duncansupply.com](mailto:training@duncansupply.com)***

***\*\*\*Cancellations must be made 24 hours prior to training date. Failure to do so will result in full charge of class.\*\*\****