

# Course #17-102

## Air Flow Dynamics Residential Duct Design



### Air Flow Dynamics and Residential Duct Sizing (4hrs)

**Course Description:** This course provides all the primary information and theory needed to understand how air flows in a residential HVAC system. It explains how the quantity of flow is calculated based on the energy demand for a particular residence and the effect that the system components have on this air flow. This course also provides more advanced information and theory needed to calculate the proper duct size in a residential forced air system. It will explain how basic air flow fundamentals must be used along with complete information on the dwelling, all installation components, proposed equipment, and best practices for installation.

**Date:** **March 2nd, 2017** (Thursday)

**Time:** 9:00 am—1:00pm  
(Lunch Provided)

**Where:** Capitol Supplies

**Cost:** \$50 per person

**Topics include:**

- Air flow measurements and terminology
- Heat gain/heat loss dynamics and calculations
- Basic residential design and air flow calculation
- Sensible heat formula and CFM calculation
- System component pressure drop dynamics
- Duct sizing theory and velocity limits
- Complete instruction for the use of the sheet metal duct calculator

Sponsored By:



Price of the class includes a **FREE ABM-100 Anemometer**. Turns your smart phone into a high performance tool you can use to measure, balance and troubleshoot air flow .



Bring your **NATE** card with you to the meeting. This course will qualify for **NATE** credits!

Return This Form To Capitol Fill Out One Form Per Person.

**Space is limited! Class will be filled on a first come, first served basis.**

Company: \_\_\_\_\_ (Please Print) Name: \_\_\_\_\_ (Please Print)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ PO# \_\_\_\_\_

FAX to (317) 923-8852 or Mail to Capitol Supplies, Inc. / 2020 N. Illinois St / Indpls, IN 46202



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