

July—December 2014

INSTALLATION & SERVICE COURSES

(Classes noting CEU hours are approved for State of Alabama Contractor Continuing Education and/or NATE CEUs)

1201 - Foundations for Troubleshooting Gas Furnaces: (27 State and NATE CEUs) 4 Days. Systematic implementation of dual fuel system analysis procedure. Gain working knowledge of dual fuel heat pump systems; proper venting, sizing of gas line, sequence of operation, and proper system performance.

October 20-23

December 8-11

1501E - Basic Refrigeration & HVAC Operations: (12 CEUs) 2 Days. Entry level; familiarization of refrigerant components, cycle of operation and problem recognition.

October 6- 7

1501 - Foundations for Troubleshooting HVAC Refrigerant Systems: (27 State and NATE CEUs) 4 Days. Systematic implementation of the HVAC system analysis procedure and validation of actual sealed system performance of fully operational HVAC equipment.

September 22-25

October 27-30

December 15-18

1502E - Basic HVAC Electrical Operations: (12 CEUs) 2 Days. Entry level; familiarization of HVAC electrical terminology, component identification and basic equipment functions.

October 8-9

1502 - Foundations for Troubleshooting HVAC Electrical Systems: (27 State and NATE CEUs) 4 Days. Systematic implementation of HVAC system analysis procedure; and construction of an HVAC electrical system. Gain working knowledge of the basic concepts of electricity (i.e. volts, amps, capacitance, inductance, reactance, power factor, ohm's law, series/parallel circuits, etc.)

September 15-18

October 6-9

November 3-6

December 1-4

1503 - Troubleshooting HVAC Refrigerant Systems: (27 State and NATE CEUs) 4 Days. (Prerequisite 1501) Development of refrigerant system troubleshooting skills through proper and systematic routines in a laboratory setting closely simulating the technician's normal work environment.

September 15-18

December 8-11

1504 - Troubleshooting HVAC Electrical Systems: (27 State and NATE CEUs) 4 Days. (Prerequisite 1502) Development of electrical system troubleshooting skills through proper and systematic routines in a laboratory setting closely simulating the technician's normal work environment. Observe operation of live equipment; verify various failure operating modes; and identify exact cause of various system failures.

September 29-October 2

October 27-30

November 17-20

1505 - Servicing HVAC Refrigerant Systems: (27 State and NATE CEUs) 4 Days. Brazing, unit fabrication, evacuation and charging.

October 6-9

November 17-20

1506 - Servicing HVAC Electrical Systems: (27 State and NATE CEUs) 4 Days. (Prerequisites 1502 & 1504) Covers such areas as functions of solid state components used in HVAC equipment; use of meters and equipment to test and validate proper operation of components; programming of solid state thermostats to operate equipment at specific modes on specific time schedules and override capabilities for major brands of equipment.

September 22-25

December 15-18

International Ground Source Heat Pump Assn. (IGSHPA) Closed Loop Certification:

(19 State CEUs;) 3 Days. Provides the HVAC contractor with skills necessary to properly install and evaluate residential geothermal systems. Certification exam given at the conclusion of course. A must for quality geothermal installations. One year membership in IGSHPA included in price.

September 15-18

1905 - Refrigerant Recovery Certification: **November 3**

State Board Review (20 NATE CEUs):

August 25-27

October 20-22

December 1-3

HVAC Technician Certification Review and NATE Test (14 State CEUs) **September 22-24** **November 12-14**

R410A Safety Certification (8 State CEUs): **November 4**

RMV - Residential Mechanical Ventilation Installation: (14 State and NATE CEUs) 2 Days. Provides invaluable information for those involved with designing and installing residential mechanical ventilation systems including HRV's and ERV's. Taught by a HRAI certified instructor, this certification class covers the fundamentals of air quality assessment, system requirements and the design and installation of mechanical ventilation systems.

October 20-21

Duct & Envelope Tightness: (12 State CEUs): This two-day course is designed to introduce the skills necessary to become a Duct and Envelope Tightness (DET) Verifier, certified to perform the diagnostic testing required for new homes by the 2009 IRC/IECC with Alabama amendments. Online math course must be completed prior to attending. Details given at registration.

August 25-26

August 27-28

September 3-4

September 29-30

October 1-2

October 13-14

October 15-16

November 17-18

November 19-20

December 15-16

December 17-18

APPLICATION COURSES

Heat Pump Overview: (12 CEUs) 2 Days. Familiarization of heat pump operations, efficiency ratings, dual-fuel, air-to-air, and geothermal systems.

October 27-28

1802 - Residential Load Calculations: (27 State and NATE CEUs) 4 Days. Develop industry accepted knowledge and skills of sizing residential heating and cooling equipment through hands-on training in a classroom and laboratory setting. (Based on the Manual J approach to load calculations.)

September 15-18

October 13-16

November 17-20

1803 - Residential Duct Design: (27 State and NATE CEUs) 4 Days. (Prerequisite 1802) Complete tasks such as determining the design CFM for sizing a duct system and proper air volume for each conditioned zone, based on design heat gain/loss. Determine the type, size, number and placement of supply diffusers and return air grilles; select proper equipment configuration for selected applications; draw layout of locations and size trunk, branch and return duct. (ACCA Manual D method.)

September 29-October 2

November 3-6

December 15-18

1804 - Marketing Applications of Ohm's Law: (12 CEUs) 2 Days. Assists Marketing Personnel in developing a working knowledge of Ohm's Law and power formula manipulation.

August 25-26

December 1-2

1807 - Duct Board Fabrication & Installation: (27 State and NATE CEUs) 4 Days. Inexperienced personnel learn to understand and apply recommended methods and techniques for fabricating duct from fibrous board material. Experienced personnel are provided the opportunity to enhance their knowledge of fibrous duct fabrication and installation methods and practices.

November 3-6

RightSuite: (14 State and NATE CEUs) 2 Days. Designed to enhance the participant's skills to use computer software applications to calculate residential loads, design ducts, and to introduce the other program modules.

September 22-23

October 20-21

December 1-2

World Class Customer Service: (8 CEUs) 1 Day. Just a few examples of what will be covered: What a customer sees from their window matters; The tone of voice and non-verbal behavior speak loudly; Every HVAC service professional will encounter a difficult customer from time to time; Upselling and cross-selling skills become easier to execute when an upselling process is in place; Virtual service devices such as voice mail and e-mail culminate in a customer's perception of quality; Service technicians editorialize by conveying too much information to residential or commercial customers. Saying too much often gets technicians into trouble.

October 14 or 15

**Go to www.alabamapower.com/hvac
or call
1-800-634-0154 to register**