2020 Winter/Spring Schedule
January–June 2020

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.

February 10-13 March 16-19

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

January 6–7 May 4–5

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.

January 6–9 January 21–24 March 16–19 April 27–30

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

January 8–9 May 6–7

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.)

January 6–9 February 10–13 March 9–12 March 30–April 2 May 4–7

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.

February 24–27 April 20–23 May 18–21

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.

January 27–30 February 24–27

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

January 27–30 March 2–5 March 30–April 2 May 11–14

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.

February 17–20 March 23–26 May 11–14
1905 - Refrigerant Recovery Certification: February 19th - May 13th

State Board Review (20 NATE CEUs): February 17-19 - May 11-13

NATE Review and NATE Test (14 State CEUs): January 21-23 - March 9-11

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 2015 IRC/IECC with Alabama amendments. Online math course must be completed prior to attending. Details given at registration. March 16-17

Rightsuite: February 3-4 - March 30-April 1

International Ground Source Heat Pump Assn. (IGSHPA): (19 State CEUs) 4 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. April 20-23

APPLICATION COURSES

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.) January 27-30 - May 4-7

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.) February 10-13 - March 30-April 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. January 13-16 - March 30- April 2

Halcyon: (14 State and NATE CEUs) 2 Days. Fujitsu Halcyon Mini-Split Heating and Cooling Systems Residential servicing. April 21-22 - May 19-20

To register: www.alabamapower.com/hvac or call 1-800-634-0154
Alabama Power Company HVAC Training Center

Approved Curriculum

To Sit For State of Alabama HVAC Contractor’s Exam

1501 - Foundations for Troubleshooting HVAC Refrigerant Systems: 27 hours

4 Days. Systematic implementation of the HVAC system analysis procedure and validation of actual sealed system performance of fully operational HVAC equipment.

1502 - Foundations for Troubleshooting HVAC Electrical Systems: 27 hours

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.)

1503 - Troubleshooting HVAC Refrigerant Systems: 27 hours

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.

1504 - Troubleshooting HVAC Electrical Systems: 27 hours

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.

1505 - Servicing HVAC Refrigerant Systems: 27 hours

4 Days. Brazing, unit fabrication, evacuation and charging.

1506 - Servicing HVAC Electrical Systems: 27 hours

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.

1201 – Foundations for Troubleshooting Gas Furnaces: 27 Hours

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.

1802 - Residential Load Calculations: 27 Hours

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.)

1803 - Residential Duct Design: 27 Hours

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.)

1807 - Duct Board Fabrication & Installation: 27 Hours

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.

Total Hours Required - 270  Total Price = $13,300.00
HVAC TRAINING CENTER

All prices below include registration, all class materials
(except State Board Review) and lunches.

(Hotel not included)

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**Participant is responsible for payment of DET Certification to Alabama Home Builders Association.**

Please note that we **do not** accept personal checks. Acceptable forms of payment are company checks, cashier checks, money order and credit cards.

Hotel Accommodations available at the Holiday Inn Express – 1-205-387-8383, Hampton Inn, Jasper – 1-205-221-3334, and Sleep Inn & Suites 1-205-387-2001

Discounts available if you mention you are attending training at Alabama Power.
REVIEW FOR STATE OF ALABAMA HEATING & AIR CONDITIONING CONTRACTOR’S CERTIFICATION TEST

This training is a review of the books and materials required for the State of Alabama Contractor’s Certification Test. **Books are not included in the price of the class**, and must be purchased prior to attending. Books are available for purchase at the Training Center. See list below.

### Dates for Review Class:
- **February 17-19**
- **May 11-13**

Circle desired date

### Cost of Review Class - $1,000

**REFERENCES FOR HEATING AND AIR CONDITIONING**

<table>
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<tr>
<td>International Residential Code for 1 and 2 Family Dwellings, 2015</td>
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<tr>
<td>Refrigeration &amp; Air Conditioning Technology, 7th Edition</td>
<td>210.00</td>
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<tr>
<td>ACCA Ductulator</td>
<td>60.00</td>
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<tr>
<td>NASCLA Contractors Guide to Bus., Law and Proj. Management (Basic 12Edition)</td>
<td>56.00</td>
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<tr>
<td>HVAC Laws &amp; Regulations</td>
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(Books should be most recent versions on State list) **BOOK PRICES ARE SUBJECT TO CHANGE**

Subtotal _____________

Total for all books with tax & shipping = $720.87

Tax (9%) _____________

All books + class = $1,700.87

Shipping & Handling 20.00

All books + class + shipping= $1,720.87

Cost of Review Class 1,000.00

(If applicable)

Total ______________

### Registration Form

Name ______________________________________

Company ___________________________________

Address ____________________________________

City/State ___________________________________

Zip _______ Phone ________________________

Fax ________________________________

Email address ________________________________

**Method of Payment:** Check or Money Order – Payable to Alabama Power Company

MC VISA AMEX DISCOVER

To make a credit card payment, please call 1-800-634-0154.
About You

Last Name     First Name     Middle Initial

Daytime Telephone Number     Email Address

Mailing Address (street, apt. number)

City     State     Zip

About Your Employer

Company Name

Daytime Telephone Number     Fax

Mailing Address

City     State     Zip

Session Date

January 20
March 9

Exam Information

Each exam is available in installer and service levels. We recommend no more than two exams at a time.

SPECIALITY EXAMS:
Core Exam
Air Conditioning
Air Distribution
Gas Heating
Air to Air Heat Pump

Fees and Payment

Test fees are determined by how many exams you register for.

Core Exam       $150.00
Specialty Exam(s)       $150.00 each

TOTAL FEES DUE: $__________

Method of Payment

Check or money order—Payable to Alabama Power Company
MC VISA AMEX Discover

To make a credit card payment, please call
1-800-634-0154

Mail form and fees to:
Alabama Power Company
HVAC Training Center
3711 Industrial Court
Jasper, Alabama 35501
Phone: 1-800-634-0154
trussell@southernco.com

For Knowledge Areas of Technician Expertise (KATE’s) visit www.natex.org
Follow I-65 to Corridor X/ I-22 Exit #265. Follow I-22 West approximately 32 miles to Exit 65 for Industrial Parkway. Turn right onto Industrial Parkway. Go approximately 2 miles and watch for HVAC Training Center sign on right side of road. Turn right at sign (Industrial Court). Training Center will be the facility located in the back housed along with Bevill State Community College. Physical address: 3711 Industrial Court, Jasper, AL 35501.