



Alabama Power

HVAC TRAINING CENTER

Jasper & Mobile Locations



2024 Winter/Spring

January – June 2024

INSTALLATION & SERVICE COURSES

(Classes noting CEU hours are approved for Alabama Contractor CEUs, BPI CEUs, and/or NATE CEUs)

1201 - Foundations for Troubleshooting Gas Furnaces: (16 BPI, 8 State and 27 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.

January 29—February 1

March 18—21

1501E - Basic Refrigeration & HVAC Operations: (8 BPI and 8 State CEUs) 2 Days. Entry level; familiarization of refrigerant components, cycle of operation and problem recognition. **February 5—6**

1501 - Foundations for Troubleshooting HVAC Refrigerant Systems: (8 State and 27 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 8—11

February 19—22

March 11-14 MOBILE

April 1-4

June 3-6

1502E - Basic HVAC Electrical Operations: (8 BPI and 8 State CEUs) 2 Days. Entry level; familiarization of HVAC electrical terminology, component identification and basic equipment functions. **February 7—8**

1502 - Foundations for Troubleshooting HVAC Electrical Systems: (8 State and 27 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 22—25

February 5—8

March 11—14

April 8—11 MOBILE

April 29—May 2

1503 - Troubleshooting HVAC Refrigerant Systems: (8 State and 27 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.

January 22—25

March 18—21

April 1—4 MOBILE

April 22—25

June 10—13

1504 - Troubleshooting HVAC Electrical Systems: (8 State and 27 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 22—25** **March 18—21** **April 22—25** **April 29—May 2 MOBILE**

1505 - Servicing HVAC Refrigerant Systems: (8 State and 27 NATE CEUs) 4 Days. Brazing, unit fabrication, evacuation and charging **January 29—February 1** **March 4—7 MOBILE**
March 11—14 **April 8—11**

1506 - Servicing HVAC Electrical Systems: (8 State and 27 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 19—22** **April 8—11** **May 13—16 MOBILE**

A2L - Refrigerant Training: **January 18th** **April 23rd**

1905 - Refrigerant Recovery Certification: **January 17th Jasper**

State Board Review: (20 NATE CEUs) **February 5—7** **February 19—21 MOBILE** **March 4—6**

NATE Review and NATE Test: (8 State CEUs) **April 1—3**

Duct & Envelope Tightness: (8 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 4—5** **March 7—8**

Rightsuite: (8 State CEUs and 14 NATE CEUs) (**Prerequisites 1802/ACCA Manual J**) This three day course is 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. **February 26—28**

APPLICATION COURSES

1802 - Residential Load Calculations: (16 BPI, 8 State and 27 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 8—11 MOBILE **February 18—21**

1803 - Residential Duct Design: (8 State and 27 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)

January 22—25 **January 22—25 MOBILE** **April 22—25**

1807 - Duct Board Fabrication & Installation: (8 State and 27 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.

February 5—8 MOBILE **February 19—22** **June 3—6**

****NEW 1810 - Diagnostic Testing for Weatherization (Blower Door & Duct Blower Operation):** (4 BPI CEUs) The one-day Blower Door, Duct Testing, and Zonal Pressure Testing class provides an intensive learning experience for weatherization professionals. In this course, participants delve into building science fundamentals, mastering blower door and duct leakage testing, while also gaining valuable insights into zonal pressure testing.

May 14th

Airstage - Residential: (8 State and NATE CEUs) 2 Days. Fujitsu Mini-Split course covers equipment selection, application, safety, single and multi-zone refrigeration systems, proper flaring techniques, component identification and testing, compressor, motor & EEV's, and troubleshooting system errors.

February 26—27

****NEW ASHRAE 62.2—Residential Ventilation:** (4 BPI CEUs) The ASHRAE 62.2 training class is a comprehensive one-day program focusing on residential ventilation standards. Participants delve into the significance of ASHRAE62.2, understanding it's history, compliance, and ventilation system design.

April 2nd

****NEW CAZ Testing (Combustion Appliance Zone):**(4 BPI CEUs) The one-day Combustion Appliance Zone (CAZ) Testing course offers a comprehensive overview for professionals in the residential weatherization field, Participants will gain insights into the importance of CAZ testing for safety and energy efficiency.

February 20th

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



Alabama Power

HVAC TRAINING CENTER

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

Hotel not included

1201	\$1,400	1802	\$1,400
1501E	\$700	1803	\$1,400
1501	\$1,400	1807	\$1,400
1502E	\$700	1810	\$385
1502	\$1,400	State Board Review	\$1,050
1503	\$1,400	***Nate Review	\$700
1504	\$1,400	1905 Ref. Recovery	\$385
1505	\$1,400	Airstage - Residential	\$700
1506	\$1,400	***DET	\$700
Rightsuite	\$1,050	A2L	\$385
Airstage	\$700	ASHRAE 62.2	\$385
		CAZ Testing	\$385

***Nate Core Exam is \$175. Nate Specialty Exam is \$175.

*** 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,

Visa, Master Card, American Express and Discover 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.

ALABAMA POWER HVAC TRAINING CENTER

3711 Industrial Court Jasper, AL 35501

1-800-634-0154

www.alabamapower.com/hvac

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 5—7 JASPER February 19—21 MOBILE March 4—6 JASPER

Circle desired date

Cost of Review Class - \$1,050

REFERENCES FOR HEATING AND AIR CONDITIONING

<u>Book</u>	<u>Price</u>
<u>International Residential Code for 1 and 2 Family Dwellings, 2018</u>	<u>160.00</u>
<u>Refrigeration & Air Conditioning Technology, 9th Edition</u>	<u>210.00</u>
<u>Manual J-Residential Load Calculations (8th Edition - Abridged)</u>	<u>99.00</u>
<u>Manual D—Residential Duct Systems (2009)</u>	<u>93.00</u>
<u>ACCA Ductulator</u>	<u>60.00</u>
<u>NASCLA Contractors Guide to Bus., Law and Proj. Management (Basic 13Edition)</u>	<u>87.00</u>
<u>HVAC Laws & Regulations</u>	<u>Contact HACR Board of Alabama</u>

Books should be most recent versions on State list

BOOK PRICES ARE SUBJECT TO CHANGE

Subtotal _____

Total cost of books plus tax = \$772.81

Tax (9%) _____

Total cost of all books with tax & shipping = \$802.81

Total cost of books & review course = \$1,822.81

Shipping & Handling 30.00

Total cost of books, review course, & shipping = \$1,852.81

Cost of Review Class 1,050.00

Total _____

Registration Form

Name _____ Company _____

Address _____

City/State _____ Zip _____ Phone _____

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.

HVAC FAST TRACK PROGRAM

For more information visit the links below.

[Bevill State/Jasper, AL](http://www.bscc.edu/hvac-fast-track)

www.bscc.edu/hvac-fast-track

[Bishop State, Mobile, AL](http://www.bishop.edu/programs/workforce-development/hvac)

www.bishop.edu/programs/workforce-development/hvac

We are now a BPI Test Center

Selected courses are approved for BPI CEUs.

Bishop State Community College/Southwest Campus

APC HVAC Training Center courses are now available in Mobile. Available course dates are listed in Orange.

Mitsubishi Service Seminar

This 4-hour course focuses on the service, installation and troubleshooting of M- and P-Series systems which includes

- Concepts and theories of system operation
 - Electrical and refrigerant circuits
- Resources and techniques to troubleshoot

February 13th or February 14th 8am to 12pm

Cost \$50 Limited Seating Available



Alabama Power



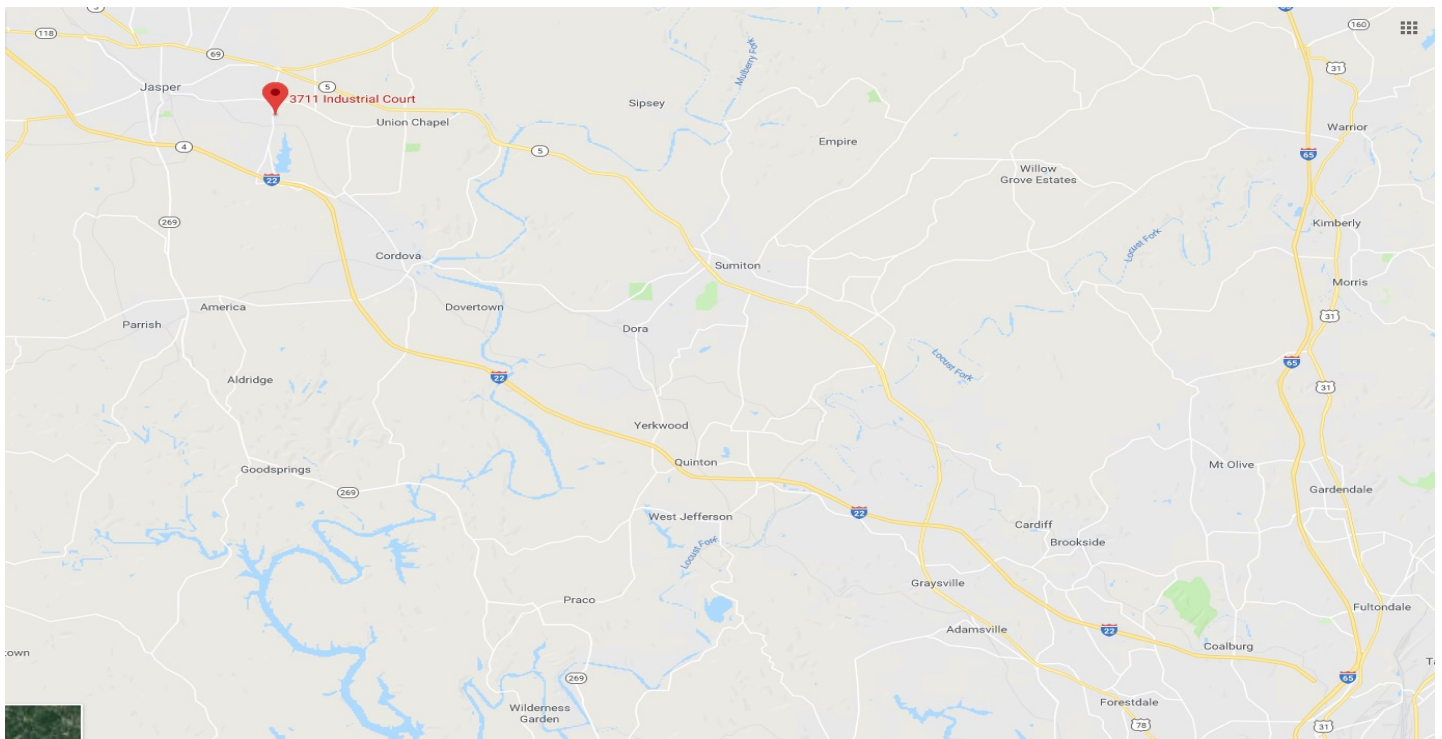
Alabama Power

HVAC Training Center

3711 Industrial Court

Jasper, AL 35501

1-800-634-0154



Visit our website

www.alabamapower.com/hvac

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 Beville State Community College . Physical address: 3711 Industrial Court, Jasper, AL 35501.