

Total Air Supply's Spring 2022 Training Schedule

6 Hour NH Gasfitter License Renewal Seminar, 2021 & 2022 Modules

\$80—The class covers the 2021 & 2022 code update modules required by the State of New Hampshire for your Gasfitter License renewal. Those who want to attend just *one module may attend the 2021 segment from 8-11 am or the 2022 module from 11:15 am to 2:30 pm depending on your needs. The cost will be \$40 per unit. *The State requires **Two**, 3-hour modules to renew your NH Gasfitter License. These two modules meet that requirement.

Derry Classroom: Saturday March 19th, 2022 – 8 am to 2:30 pm

Nashua Classroom: Saturday April 16th, 2022 – 8 am to 2:30 pm

Derry Classroom: Saturday May 21st, 2022 – 8 am to 2:30 pm

Derry Classroom: 6-Hour How to Read Wiring Diagrams, Monday & Tuesday, March 21st & 22nd from 5:30 pm to 8:30 pm, Cost \$60

—This two evening, 6 hour class will cover the basics of electrical theory including series, parallel and series-parallel circuits, what each circuit is used for, the components such as switches and relays, and how each type of circuit functions. We will then move on to the different types of wiring diagrams, the different sections of a wiring diagram, the symbols, and how to read the different diagrams before tracing safety, control and operating circuits according to the sequence of operations on heating and cooling equipment. We will review meters and their use and when discussing checks with meters throughout the presentation, there will be pictures of where to place the probes for voltage or ohms readings and where to place your clamp for amperage. At the end of the webinar, we will go through a review of a diagram answering questions of where to check for voltage, ohms or amperage.

Online: EPA 608 Refrigerant Certification Testing Review Webinar on Monday & Tuesday April 11th & 12th, 2022 from 5:30 pm to 8:00 pm with in Person Testing on Thursday April 14th, 2022 from 5:30 pm - 8 pm in our Derry Classroom. \$120 This two-night review is a power point presentation covering the study guide material & charts. This should **not** be considered a “substitute for studying”, but as a final review before the test. **Email Address Is Mandatory to Register for the review webinar.** Please register early to get the study guide emailed to you.

Derry Classroom: EPA 608 Refrigerant Certification Testing for “Those who want to take the “Test Only or Retest”, Thursday April 14th, 2022 from 5:30 pm - 8 pm -- \$60 If you are registering for the Test Only, Please register early to get the study guide emailed to you.

Nashua Classroom: 4-Night Air Conditioning Boot Camp April 26th& 28th and May 3rd & 5th, 2022 from 5:30 to 9:00 pm \$185—This is a 4-evening seminar. It will explain the Refrigeration Cycle, the foundation of comfort cooling. We will discuss the importance of why a tech needs to understand superheat, sub-cooling, amp draws, temperature splits, evacuation and leak checking, airflows role in the process and airflows role in the charging process. The class also covers R-410A, R-22 & R-22 Replacement Refrigerants, components of the system, a few different installation scenarios, start-up procedures, and basic troubleshooting with your meter, temperature probes and diagnostic sheets you will be receiving. Testing AC components with electrical meters will be done hands on. On the last night of the class, we will do a start-up on a live split AC system.*This class contains an incredible amount of information so pdf files will be given of the presentations for further review at the attendee's leisure.

Derry Classroom: Duct Sizing with Manual D Tuesday May 10th, Thursday May 12th, Tuesday May 17th, 2021 and Thursday May 19th, 2022 from 5:30 pm to 8:30 pm \$140—This 12 hour, Four evening class, covers what is needed to size a residential duct system. We start on night 1 with some basics of heat loss and gain and finish by completing two residential Duct Designs, one in the basement and one in the attic including grilles, registers and diffusers. This is not a Duct Design Software class. **Attendees will do all sizing work on Manual D worksheet so they will see what is going on at every step of the process.** *This class contains an incredible amount of information so pdf files of the presentations and other documents will be given for further review at the attendee's leisure.

Some other Duct Sizing Class Topics

Why a Manual J block load calculation is ok for equipment sizing when doing an equipment change out and how this will most likely allow us to down size the equipment.

Why you need a room-by-room Manual J load calculation in order to do a proper ACCA Manual D Equal Friction Method Duct Design. The benefits of correctly sized equipment, single stage vs 2 stage vs modulating furnaces, PSC vs ECM motors,

Things to ask and information to gather during the home visit or from the builder when adding or replacing equipment and/or duct work.

The theory of how and why air flows or will not flow through a duct system and the test necessary to prove airflow. Why static pressure, velocity, cfm, pressure drop, available pressure, etc. and the relationship between cfm, static and amps matter. The importance of choosing evaporator coils with less pressure drop using the AHRI matching charts and choosing the right filters.

The "Do's and Don'ts of Duct Design and Duct Fittings" that can make or break your design. What is equivalent & effective length? Why do they matter? Why fitting choices matter and the consequences of choosing poorly.

We will go over how to correctly use a duct calculator for duct sizing. You will learn what friction rate is, how to calculate for it and then use it to size ducts. You will also learn to use it for velocity numbers, sizing rectangular ducts or round pipe, etc. This will help with retrofit issues as well

We will close out the class by walking through a small, two story residential Duct Design using the ACCA Manual D Duct Design Friction Rate and Duct Sizing worksheets and manually calculated your pressure drops and available airflow, choose our fittings, calculate our longest runs, room airflow needs, and duct sizes.

*A Minimum class size of 7 people is necessary for the class to run. Food and drinks are not provided for in person classes during COVID Restrictions. All in person classes are held at the Perry Haymann Memorial Training Room at our 171 East Hollis St., Nashua, NH location or our 1B Street, Derry, NH location. Class attendees can find starting times for classes and webinars listed in the class description. Seating is limited and on a first come, first reserved basis. If more than one person is attending, please duplicate this form as necessary and make *checks payable* to Total Air Supply. * Applies to non-account holders only*

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If registering multiple people on one form please fill in the name, contact # & desired classes section for each attendee. You can print and fax the information or Microsoft word savvy people can fill out the form and email it to randal@totalairsupply.com

Total Air Supply, 171 East Hollis St., Nashua, NH 03060 Phone: 603-889-0100
Fax sign-up Sheet to: 603-425-6117 Attn: Randal

Company Name: _____ Company Phone: _____

Name of Attendee: _____ contact # _____

Classes desired: _____

Email Address **Mandatory for EPA Seminar:** _____

Name of Attendee: _____ contact # _____

Classes desired: _____

Email Address **Mandatory for EPA Seminar:** _____

Name of Attendee: _____ contact # _____

Classes desired: _____

Email Address **Mandatory for EPA Seminar:** _____

Billing to company—authorized by: _____

Card type: Please circle one-----Visa-----Master card-----American Express

Name on credit card: _____

Card Number: _____

Billing address for card: _____

Expiration Date: _____ Security Code: _____

Phone # associated with card: _____ Amount enclosed: _____

Authorized Signature: _____