

Residential & Light Commercial Air Balancing

Learn how to test, adjust and balance HVAC systems the right way!

More and more residential and light commercial HVAC contractors and energy professionals are discovering the importance of testing and balancing their installations. Besides the fact that an increasing number of code officials and building departments are requiring balancing reports, your ability to test, adjust and balance your customers' HVAC systems will set you apart from the competition.

NCI is the world leader in Air Balancing. We created the industry's best practices, procedures and forms, and have been certifying people to use them for nearly two decades! What makes NCI's Air Balancing approach different? We show you how to thoroughly test and diagnose the system so if repairs are needed to make it "balanceable," you'll know exactly what to do to provide your customers with optimum comfort, indoor air quality, and energy efficiency.

Learn how to deliver high quality Air Balancing services and produce professional reports and documentation to differentiate your company from your competition!

Benefits of NCI's Air Balancing Training and Certification

- Start with the basics and step up to advanced air measurement with easy to understand measurement methods and plain English procedures and forms
- Add Air Balancing to your offerings, either as an add-on or stand-alone service to increase sales and customer loyalty
- Comply with new, tighter local, state and federal building codes and requirements
- Use Air Balancing techniques to identify and solve system performance issues, improve IAQ and reduce energy consumption
- Establish yourself in your marketplace as a true air balancing expert, and the go-to professional to solve long-standing problems
- Sell highly profitable professional services at margins far beyond those available from service and equipment replacement alone



**Course Qualifies for
NATE, BPI & Most
State CEUs**



ABSheM0414



Who Should Attend?

HVAC Professionals and Contractors,
Energy Professionals, Engineers,
Facility Managers and Technicians,
Distributor Field Service Reps,
In-Plant HVAC Service Techs



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Agenda

Day 1 - Classroom and Hands-On Training

- How to measure static pressures
- How to use a balancing hood and traverse airflow
- Plan review and takeoff
- Preparing an air balancing report for field testing
- What to bring with you into the field
- Preparation tips

Day 2 - Hands-On Training and Certification Exam

- Initial inspection
- Preparing a system for air balancing
- Writing a field report
- How to set fan airflow
- Balancing supply registers and return grilles
- Final testing: pressure, fan speed, temperature and electrical
- Publishing a final balancing report
- Certification exam

Day 3 - Light Commercial Air Balancing and Certification (For Systems Up To 20 Tons)*

- Residential and light commercial balancing differences
- Estimating labor and pricing balancing work
- Pre balance checklist, inspections and system readiness
- Fan laws and pulley adjustment
- Field deficiency reports and commercial obstacles
- Kitchen exhaust and economizer balancing
- Publishing final balancing reports
- Certification exam

**Light Commercial class and certification optional for an additional cost.*

Additional Training from National Comfort Institute:

- **Residential & Light Commercial System Performance**
- **Residential HVAC System Renovation & Retrofit**
- **Carbon Monoxide Safety & Combustion**
- **Performance-Based Selling**
- **Home Performance for HVAC Professionals**

Frequently Asked Questions

Q: What kind of certification do I earn?

NCI's Residential and Light Commercial Air Balancing certifications are among the most recognized certifications in our industry. NCI has certified more than 20,000 industry professionals across North America and beyond. These certifications are valid for two years. Recertification is achieved with 8 hours of NCI continuing education.

Q: Do I need to bring any special tools to the class?

While all the tools needed during the training are provided in the class, you are welcome to bring your instruments and verify if they are still within calibration. A CD with customizable balancing forms and procedures is included.

Q: What are the start and end times of the class and is lunch included?

The typical NCI training day is 8:00 am to 5:00 pm. Light refreshments and lunch are included.

Who is National Comfort Institute (NCI)?

National Comfort Institute (NCI), the HVAC industry's leader in Performance-Based Contracting™, is an international membership and training organization that provides heating, air conditioning, plumbing and electrical contractors with services and tools to help them improve their businesses.

NCI coined the phrase "Performance-Based Contracting™", a unique approach to managing a contracting business through accountability and measurable results. During the past two decades, NCI has trained and certified more than 20,000 HVAC industry professionals. For more information about NCI, please call 800-633-7058 or visit www.nationalcomfortinstitute.com.