

*Learn to Maximize Air Delivery
and Overall Performance*



Commercial Air Balancing Certification Program

The Commercial Air Balancing Certification course helps equip HVAC professionals with the knowledge and tools they need to balance commercial HVAC systems up to 20 tons, including kitchen exhaust and make-up air systems.

Deliver High Quality Air Balancing Services and Professional Reports

An increasing number of HVAC and energy professionals are discovering the importance of testing and balancing their installations. Many are also recognizing the opportunity to provide independent balancing services. Additionally, more code officials, building departments, and utility programs are requiring certified balancing reports for both new construction and replacement/renovation work.

This class is also ideal for facility management professionals and on-staff service techs who need to test and balance systems within their plants and commercial facilities.

National Comfort Institute, Inc's (NCI) completely updated 3-day program gives the HVAC professional a comprehensive education on the airside testing and adjusting processes needed to maximize air delivery and overall performance. We start with the basics of pressure, temperature, and airflow testing, then build up to more complex air balancing techniques.

Why NCI's Air Balancing Training is Different

Our air balancing training was created from the ground-up based on many years of actual field experience, practical NCI standards, and simplification of often complex engineering concepts and terminology. For example, this class will help you understand what fan laws do, how they work, and how using them to make pulley adjustments affects system balance. You'll also learn how to overcome the common obstacles you'll run into in the field while adjusting and balancing most commercial systems.

NCI is the world leader in HVAC System Performance and Air Balancing training. We built the industry's best practices, processes and forms, and have been teaching them for nearly two decades!



Leading the Industry in
Performance-Based Contracting™

Commercial Air Balancing/Economizers & Kitchen

Deliver high quality air balancing services, and produce professional reports and documentation to differentiate your company from your competition!



Benefits:

- Learn the basics, then step up to advanced, easy-to-understand air balancing measurements, testing static pressures, temperature, and airflows using plain English procedures and forms
- Increase sales and customer loyalty — add testing, adjusting, and balancing to your service offerings by integrating it into your differentiated service and maintenance approach
- Use air balancing techniques to identify and solve system performance issues, improve IAQ, and reduce energy consumption
- Use HVAC performance diagnostic techniques to identify and solve system performance issues, improve IAQ, and reduce energy consumption
- Establish yourself in your marketplace or your company as a true air balancing expert — the go-to professional to solve long-standing problems
- Sell highly profitable professional air balancing work at margins far beyond those available from typical service and equipment replacement
- If you're an on-staff engineer or technician, you can use air balancing and diagnostics to maintain your facility's comfort systems in peak operating condition

Agenda:

DAY 1: The Key Elements of Air Balancing

- Commercial Air Balancing Overview
- NCI Commercial Air Balance Specification
- Estimating and Selling Balancing Work
- Preparing for a Balancing Project
- Static Pressure Testing
- Static Pressure Profiles
- Traversing Airflow
- Electrical and RPM Testing

NCI's Training and Certification Packages Include:

- Course workbooks, Field Reference Guide, and other training materials
- Many useful NCI report forms and procedures
- Certificates and wallet cards upon passing certification exams and field testing
- 30 days of unlimited toll-free support



I use this training to better help customers decide how to save energy and money by improving their comfort systems.

Mike Muras, Owner,
M & K Electrical, Plumbing, Heating & Air

"NCI opened my eyes to a new way, with performance based outcomes, and I haven't looked back since"

Dave Coziahr,
Coziahr Heating & AC

Register now and discover the Performance-Based Contracting™ Difference!

Exhaust Systems



Who Should Attend?

HVAC Professionals
Engineers & Certified Air Balancers
Installers & Installation Managers
Facility Maintenance & Technicians
Service Managers

DAY 2: Balancing Principles, Techniques, and Reporting

- Fan Laws - Effects of Changes in Pulley Diameter, Static Pressure, Amp Draw, and Horsepower
- Measuring and Adjusting Register and Grille Airflow
- Proportional Balancing
- Temperature Testing and Final Testing
- Publishing the Final Report

Now that you've mastered the basics, it's time to step up to advanced air measurement with easy-to-understand measurement methods, procedures, and forms

- Learn how to measure airflow and BTUs through economizers and adjust for optimum performance
- Discover the proper techniques to measure airflow across a kitchen exhaust system, correct airflow problems, and test-out to verify your work
- Learn how to test and adjust make-up air units, and balance exhaust to make-up airflows to improve comfort, indoor air quality, and safety, while greatly reducing energy waste

Day 3: Economizers and Kitchen Exhaust Systems

- Economizer Fundamentals
- Measure and Adjust Economizer Airflow
- Kitchen Exhaust System Fundamentals
- Kitchen Exhaust System Balancing and Reporting

The day concludes with NCI's exclusive Commercial Air Balancing certification exam

Call 800-633-7058

Frequently Asked Questions

Q: What kind of certification do I earn?

NCI's Commercial Air Balancing certification is among the most recognized certification in our industry. By passing the exam on Day 3 you will earn a **Commercial Air Balancing Specialist** certification.

Q: How long is the certification good for and how do I get recertified?

This certification is valid for two years. Recertification is achieved with eight hours of NCI continuing education.

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 NCI?

National Comfort Institute, Inc. (NCI) is the world leader in HVAC System Performance and Air Balancing training. We created the industry's best practices, processes, and forms and have been teaching them for decades.

What makes NCI's approach different? We show you how to thoroughly test and diagnose the system using practical, easy-to-follow methods so you'll know exactly what to do to provide your customers with optimum comfort and energy efficiency.

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 25,000 HVAC industry professionals. For more information about NCI, please call **800-633-7058** or visit **www.nationalcomfortinstitute.com**.



Additional Educational Opportunities from NCI:

- Residential HVAC System Performance & Air Balancing
- Hydronic Testing, Adjusting, & Balancing
- Large Commercial Balancing (National Balancing Council)
- Airflow Testing & Diagnostics Implementation
- Combustion Performance and CO Safety
- Commercial HVAC System Performance
- Duct System Optimization
- NCI Online University



**Take
Air Balancing
In-House!**

Learn to Professionally Air Balance Commercial Facilities



Commercial HVAC Air Balancing Education and Training



Courses Qualify for:
NATE, BPI &
Most State CEUs

