

ADVANCED HVAC EDUCATION & TRAINING



Leading the Industry in
High-Performance HVAC™

Add Hydronic TAB to Your Service Offerings

Hydronic Testing, Adjusting and Balancing

Have you always wanted to balance hydronic systems you install and/or service, but have not been able to find practical, hands-on, step-by-step training to do it right? Is your company already performing hydronic TAB, but you want to get more technicians trained? This is the right class for you!

First-timers and seasoned professionals who attend this course will gain a firm understanding of the most current hydronic testing and balancing practices. This National Comfort Institute exclusive two-day course is also a perfect stepping stone for technicians working towards achieving National Balancing Council certification. *"Hydronic Testing, Adjusting and Balancing"* is an intensive training program that begins with the very basics, then moves up to advanced testing and balancing procedures required for everyday applications.

BENEFITS

- Opens the door to increased sales and customer loyalty through professional testing, adjusting, balancing (TAB), and diagnostics
- Prepares technicians for day-to-day operations in the field
- Prepares your field service personnel for taking on the challenges of NBC certification in the future
- Provides a hands-on learning environment
- Enables your field service professionals to stay current on hydronic TAB best practices.



Hydronic System Testing, Adjusting and Balancing

Training includes an even mix of classroom and hands-on experiences

The course consists of 50% classroom training and 50% hands-on exercises where students use a variety of instruments on various systems, facing situations and problems they will encounter in the field. This allows the participants to simply focus on the material and hands-on learning.

WHO SHOULD ATTEND?

This class provides just the right training for testing and balancing personnel as well as field service technicians and technical managers. Facilities management personnel and design teams will also benefit greatly from this practical training.

In this two-day class, HVAC professionals will learn to:

- Troubleshoot hydronic systems
- Select and size pumps and pipes
- Understand pump flow, balancing, and operation
- Determine coil/flow by pressure drop, by Cv rating, by heat transfer using Btu calculations and more
- Create hydronic TAB reports that customers can easily understand.

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



Register now and discover the Performance Based Contracting™ Difference!

For more information, call 800-633-7058 or visit NationalComfortInstitute.com



AGENDA:

DAY 1: Hydronics Overview

- How to prepare for a hydronic balancing project
- Overview of different types of hydronic equipment and piping systems
- Hydronic TAB reporting requirements
- Introduction to pumps, including how to use a pump curve
- Pump laws and their application in the field
- Pump selection and pipe sizing methods
- Determine system requirements.

Day 2: Testing, Balancing, Reporting

- Determine hydronic flow using coil pressure drop
- Determine hydronic flow using Cv ratings
- Determine hydronic flow using Heat transfer/Btu calculations
- Quickstep method for balancing coils and flow stations
- Report coil/flow station TAB
- Finalize hydronic test and balance
- Required forms, overall content, remarks, and other data necessary for hydronic TAB report.

Hands-on activities and experience are interspersed throughout both days of training. Certification exam on Day 2.

Who benefits from this training?

- Managers
- Installers
- Service Technicians
- Facilities Professionals
- Commercial Air Balancers.

NCI's Hydronic Training Package includes the following tools:

- Pressure Drop Calculator
- Manufacturer Hydronic Valve Charts
- Hydronic Troubleshooting Guide
- Hydronic System Sizing Guide.



**LEARN HOW TO
test, adjust, and
balance hydronic
systems.**



800-633-7058 | NationalComfortInstitute.com

HydTAB0522

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 "High-Performance HVAC™", 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 30,000 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
- Large Commercial Balancing (National Balancing Council)
- Airflow Testing & Diagnostics Implementation
- Commercial HVAC System Performance
- Duct System Optimization
- Commercial Air Balancing
- NCI Online University



Scan the QR Code
to Learn More
and Register



Courses Qualify for
NATE, & Most State CEUs