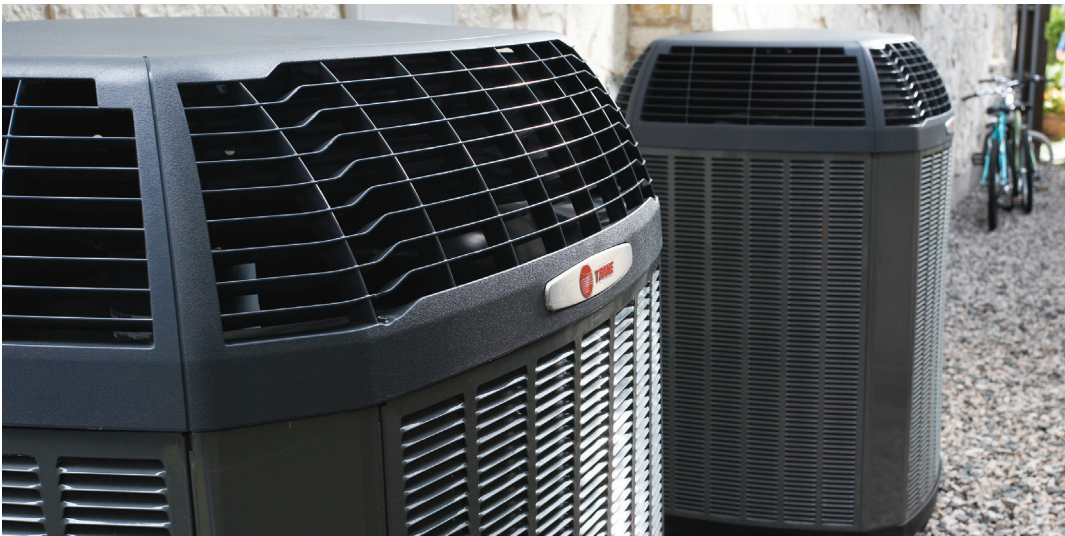


# Residential HVAC NC3 Certifications



NC3 and Trane are dedicated to shaping tomorrow's workforce through specialized certification programs, industry related training materials, and hands-on training. **Participants will learn the following:**

## 1. AIRFLOW CERTIFICATION

- Gain a basic understanding of airflow characteristics and dynamics
- Learn about duct systems, grills, registers, and diffusers
- Accurately measure duct pressures
- Measure air volume in cubic feet per minute (CFM)
- Understand the principles of duct design and installation applications
- Demonstrate the correct use of relevant tools and testing instruments

## 2. VARIABLE SPEED MOTORS CERTIFICATION

- Develop a basic understanding of motor design and components
- Learn the applications and operational sequence of various motors
- Apply proper service procedures effectively
- Demonstrate accurate troubleshooting steps and techniques for motor issues
- Demonstrate the correct use of relevant tools and testing instruments

## 3. AIR-TO-AIR HEAT PUMP CERTIFICATION

- Gain an understanding of the principles of the heat pump cycle
- Learn the operation and application of each heat pump component
- Demonstrate knowledge of dual fuel configurations
- Understand the defrost cycle and how to troubleshoot defrost issues
- Gain expertise in charging and troubleshooting procedures per manufacturer specifications
- Apply proper service procedures effectively
- Demonstrate the correct use of relevant tools and testing instruments

## 4. REFRIGERATION DIAGNOSTICS CERTIFICATION

- Develop an understanding of refrigerant cycle components and their functions
- Gain knowledge in refrigerant charging and testing procedures
- Apply proper service procedures effectively
- Demonstrate effective troubleshooting techniques
- Demonstrate the correct use of relevant tools and testing instruments



Trane is proud to work with the National Coalition of Certification Centers (NC3). All certifications are administered by NC3. For more information, visit [www.nc3.net](http://www.nc3.net)



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

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