Nance Universal HVACR Technical School

www.nanceschool.com | info@nanceschool.com
PHONE: (409) 838-6127 | FAX: (409) 838-6219

2024 -2025 Seminar Schedule

- BASIC
- EPA CERTIFICATION AND REFRIGERATION RECOVERY
- ADVANCED
- TROUBLESHOOTING HVACR AND UNDERSTANDING CHILLED WATER SYSTEMS
- BRAZING AND BONDING LAB
- ELECTRICAL

Oct 2024

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Nov 2024

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Dec 2024

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Jan 2025

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Feb 2025

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Mar 2025

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Apr 2025

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May 2025

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Jun 2025

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July 2025

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Aug 2025

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Sept 2025

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Oct 2025

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Nov 2025

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Dec 2025

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COMING SOON – ONLINE HVACR CERTIFICATION

2025 Nance Universal HVACR School

Nance International
877-626-2322

Nance Sheet Metal
877-626-2322

BASIC HVACR

RECOMMENDATION: Class is appropriate for electricians or mechanics who are going to maintain air conditioning and refrigeration systems, but who have only limited experience or traininging HVACR. Twenty-fi ve (25%) percet of this seminar is "hands on" experience in the laboratory **COST: $2070.00 – Four Day Seminar (lab and study materials included)**

- Defi nitions
- Refrigerant pressure - temperature chart analysis
- Basic refrigeration cycle
- Compressors - in mechanical refrigeration systems
- Condensers - construction, characteristics and types
- Evaporators - construction
- Refrigerants
- Basic electricity for refrigeration
- Brazing - system assembly, procedure and repair
- Leak detection
- Recovery and charging of systems and other service techniques
- Scheduled maintenance

EPA Certification & Refrigeration Recovery

RECOMMENDATION: This seminar in Refrigerant Recovery and Recycling is designed for people who repair, maintain or install equipment that contains or will contain when charged, regulated refrigerants. The proper method of recovery and recycling of these refrigerants is covered using state-of-the-art equipment. Bringing a laptop, tablet, iPad or internet capable device (other than a phone) will allow you to take the exam online. Online allows for immediate results. If only 2 sections are passed, you will have the opportunity to re-test before leaving our facilities. Bring smart device for test. We can accommodate the few that do not have access to a device. **COST: $405.00 - One Day Seminar (lunch, study guide, EPA exam included)**

- General Information
- Safety precautions
- Defi nitions
- Review of available equipment
- Practice test
- Examination for certifi cation
- Laws and directives
- Refrigerant pumpdown
- Recovery and recycle, reclaiming
- Review of available equipment

ADVANCED

RECOMMENDATION: Class is appropriate for those already involved in repair and maintenance of air conditioning and refrigeration equipment.Fifty (50%) percent of this seminar is "hands on". **EXPERIENCE IN THE LABORATORY.**
PREREQUISITE: BASIC A/C. COST: $2175.00 – FIVE DAY SEMINAR

- Review of refrigeration systems
- Superheat and subcooling calculation
- Refrigerant oils
- Accessories - where they are used and how they work
- Cycle controls - mechanical, electrical and electronic
- Refrigerant system cycle controls - compressor system
- Pump-down and repair of system components on low pressure side including refrigerant flow controls Dehydration and evacuation procedures.
- Water-cooled condensers and cooling towers
- Advanced electrical schematic reading
- Airside problems, psychometrics, capacity calculation
- Troubleshooting the system

Troubeshooting HVACR & Chilled Water Systems

RECOMMENDATION: Those attending this seminar should have prior on-the-job experience, as well as some technical training in HVACR. Seventy (70%) percent of this seminar is "hands on" experience in the laboratory. This class will also include the basic knowledge of chilled water systems.
PREREQUISITE: Basic and Advanced courses. **COST: $2445.00** - Five Day Seminar (lab and training materials included)

- Collecting and analyzing data
- Troubleshooting the entire system - electrical and refrigeration
- Cleaning up after a compressor burnout
- Preventing future compressor failures
- Systematic ways of eliminating refrigerant and electrical problems
- Air analysis, problems and measurements
- Capacity calculation
- Detecting and eliminating fl oodback and slugging problems
- Tuning up your system for maximum efficiency
- Chilled water refrigeration cycle
- Chilled water fluid cycle
- Operation of common refrigeration, fluid and electrical components
- Measuring system cooling capacity
- Measuring system fluid capacity
- Measuring fluid fl ow
- Electrical sequence of operation
- Refrigerant and oil charging
- Electrical troubleshooting
- Refrigerant troubleshooting
- Fluid-side troubleshooting
- Scheduled maintenance

ELECTRICAL

RECOMMENDATION: Most problems in HVACR systems are electrical. This is a class for those that do not have electrical experience. The three-day class begins with electrical fundamentals and advances to basic electrical troubleshooting techniques. The course will discuss how to diagnose, troubleshoot and repair common components found in HVACR systems. The lab portion of the course includes wiring basic circuits; troubleshooting components and troubleshooting operating systems. The course will show the learner how to use troubleshooting tools such as the voltmeter, ohmmeter and ammeter. **COST: $1720.00** - Three Day Seminar (lab and training materials included)

- Electrical safety
- Electrical fundamentals
- Use of electrical instruments
- Understanding electrical symbol
- Reading electrical diagrams
- Basic diagnostic, troubleshooting & repair skills
- Using electrical diagrams to troubleshoot
- Planning the troubleshooting process
- Troubleshooting HVACR components such as fuses, transformers, contactors, relays, capacitors, and thermostats
- Troubleshooting fan and pump motors
- Troubleshooting compressor motors
- Troubleshooting HVACR systems
- Learning to apply Ohm's Law
- Wiring basic air conditioning circuits

BONDING & BRAZING

This class covers all major types of soldering techniques used commonly in the HVAC industry. Information includes a breakdown of brazing material types and usage, and practical applications. This class is comprised of 75% lab and 25% classroom instruction. Flared fi tting preparation and installation is covered as well as push and press lock fi ttings. Brazing and soldering various metals. We will work with brass, steel, and aluminum. COST: $1200.00 - Two Day Seminar (lab and training materials included)

- General facts and safety information
- Brazing copper joints and fi ttings
- The swedging of copper piping
- Usage of torches, reamers, and cutters
- Usage of flaring tools
- Installing fl are fi ttings on copper
- Copper to aluminum using solder and flux
- Pressure test project up to 200 psi
- Repairing copper tubing using brazing rods
- Repairing aluminum tubing using aluminum fluxed rod

ON-SITE HVACR TRAINING
RECOMMENDATION: This class is designed around your crews needs and your site-specific equipment. The class is built around your schedule, your equipment and at the location of your choice. We will have the curriculum written to refl ect your equipment which in turn will enhance the learning process and empower your crew.
COST: Determined Individually

FACILITIES & LOGISTICS

FACILITIES: 25x30 classrooms with the latest in audio and visual aids, together with a 1000 sq. ft. laboratory containing working systems to train students in all types of applications from hermetic type compressors to heavy industrial open types. Working systems, both air and water cooled, are used to provide "hands-on" learning. Air distribution techniques can be fully demon-strated as well.

DRESS: Long pants and closed-toe shoes for both classroom and lab work.
SAFETY: No weapons on our premises.
CLASS HOURS: From 7:30 a.m. - 5:00 p.m. (40 hours)
LOCATION: 2915 Milam, Beaumont, Texas 77701
TUITION: Is due on or before the first day of class.
Tuition does not include meals, lodging, or transportation.

NOTE: If the student does not show up to class, the company will still be billed for that class. This charge will be good for a one-time credit to be used within 90 days. Once the 90 day period is up, the credit is no longer valid. All cancellations should be made 7 days prior to the first day of class. Anytime after this, you will be billed for the class. Overseas cancellations must be made 21 days prior to the first day of class. Anytime after this, you will be billed for the class. • Minimize Repair Cost and Reduce "Downtime" • Maximize Equipment Efficiency • Meet EPA Requirements

NANCE AIR CONDITIONING • REFRIGERATION HVACR TECHNICAL SCHOOL

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info@nanceschool.com
www.nanceschool.com

MCM Elegante HOTEL & CONFERENCE CENTER

2355 IH-10 South • Beaumont, TX 77705
409-842-3600 • Fax: 409-842-0023
877-842-3606 • www.mcmelegante.com
GPS address 3105 Executive Blvd.