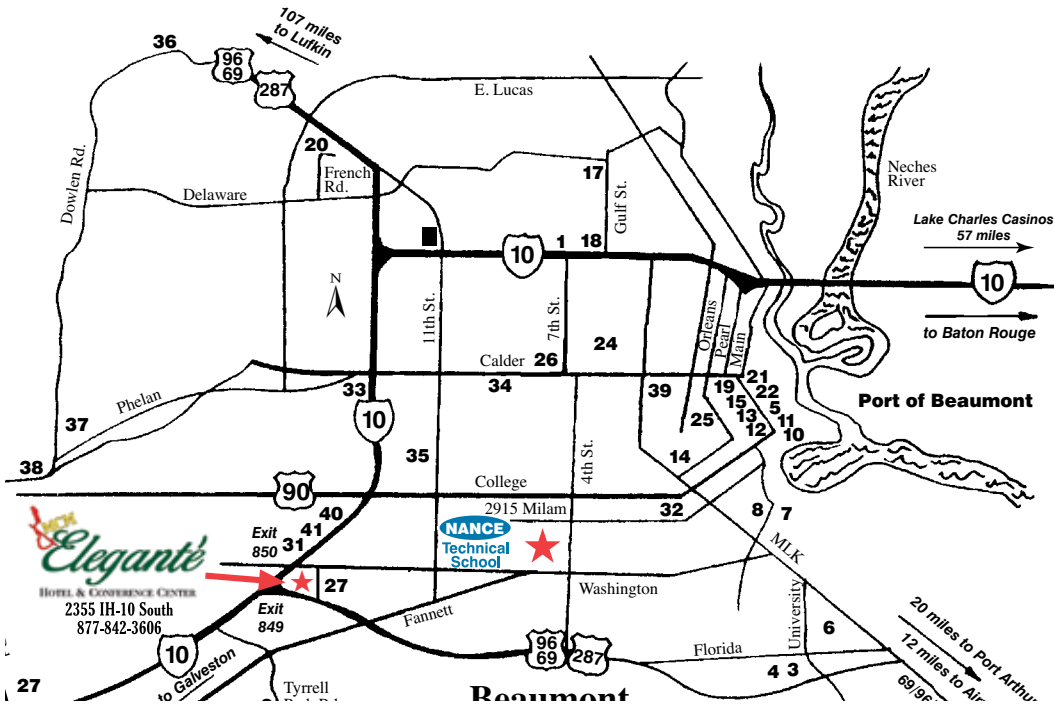


A HISTORY

In 1976, recognizing the increasing complexity of HVACR equipment and the cost and time involved in obtaining on-shore contractor service personnel, Nance created the Nance Universal HVACR Technical School. From the beginning, its charter has been to provide operations personnel within the offshore industry with the tools and training necessary to increase the quality of maintenance, make minor repairs and perform basic diagnostic tests on the equipment for which they are responsible. The school teaches the basic theories of the refrigeration cycle, provides an understanding of the functions of system components and addresses the EPA requirements involved in operating and servicing HVACR equipment.

The school has been a resounding success, with more than 300 students per year having attended the various courses offered. Each of these technicians returned to their jobs better equipped to maximize equipment performance, extend equipment life and reduce operating costs through better maintenance and on-site minor repairs.

The school's training provides an immediate return on investment, and Nance is proud of its role in helping make the offshore industry more profitable and more efficient.



BEAUMONT POINTS OF INTEREST

- | | | |
|------------------------------------|---|------------------------------------|
| 1. Visitor Information Center | 16. Fair Park | 30. Cheddars Restaurant (American) |
| 2. Tyrrell Park | 17. Cattail Marsh | 31. Carrabba's (Italian) |
| 3. Gladys City Spindletop Boomtown | 18. Babe Didrikson Zaharias Memorial Museum | 32. Elena's (Mexican) |
| 4. Lucas Gusher Monument | 19. Beaumont Art Museum | 33. Saltgrass Steakhouse |
| 5. Riverfront Park | 20. Beaumont Heritage Society | 34. Luke's Icehouse |
| 6. Lamar University | 21. Art Museum of Southeast Texas | |
| 7. Clifton Walking Beam | 22. Fire Museum | SHOPPING CENTERS |
| 8. Temple To The Brave | 23. Clifton Steamboat Museum | 35. Parkdale Mall (200 stores) |
| 9. Post Office | 24. McFaddin-Ward House | 36. The Mildred Bldg. (antiques) |
| 10. Port Of Beaumont | 25. Cinemark Theater Beaumont | 37. Harley Davidson |
| 11. Police - Municipal Court Bldg. | 26. Old Town Restaurants & Shops | 38. Honda |
| 12. Beaumont Public Library | 27. MCM Elegante Hotel | |
| 13. Tyrrell Historical Library | 28. Pappadeaux Seafood Kitchen | |
| 14. St. Anthony's Cathedral | 29. Tinseltown Theater | |
| 15. Energy Museum | | |


2023 SEMINAR SCHEDULE

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
JANUARY							MARCH							APRIL										
1	2	3	4	5	6	7	5	6	7	8	9	10	11	2	3	4	5	6	7	8				
8	9	10	11	12	13	14	12	13	14	15	16	17	18	9	10	11	12	13	14	15				
15	16	17	18	19	20	21	19	20	21	22	23	24	25	16	17	18	19	20	21	22				
22	23	24	25	26	27	28	26	27	28	29	30	31	23	24	25	26	27	28	29					
29	30	31											30											
MAY							JULY							AUGUST										
1	2	3	4	5	6		2	3	4	5	6	7	8	1	2	3	4	5	6	7				
7	8	9	10	11	12	13	9	10	11	12	13	14	15	8	9	10	11	12	13	14				
14	15	16	17	18	19	20	16	17	18	19	20	21	22	13	14	15	16	17	18	19				
21	22	23	24	25	26	27	23	24	25	26	27	28	29	20	21	22	23	24	25	26				
28	29	30	31				30	31					27	28	29	30	31							
SEPTEMBER							NOVEMBER							DECEMBER										
3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	3	4	5	6	7	8	9		
10	11	12	13	14	15	16	6	7	8	9	10	11	12	13	14	15	16	10	11	12	13	14	15	16
17	18	19	20	21	22	23	13	14	15	16	17	18	19	20	21	22	23	17	18	19	20	21	22	23
24	25	26	27	28	29	30	20	21	22	23	24	25	26	27	28	29	30	24	25	26	27	28	29	30
							26	27	28	29	30													

OVERSEAS SESSIONS

BHARAIN* Jun 18 - 22 BAS. Nov 12 - 16 BAS.
DUBAI* Jun 4 - 8 BAS. Jun 11 - 15 AD. Nov 5 - 9 BAS.
BRAZIL (MACAÉ) Sep 18 - 22 BAS. ENGLAND Apr 24 - 28 BAS.
MEXICO (Veracruz) Mar 27 - 31 BAS. ABERDEEN Apr 17 - 21 BAS.
SINGAPORE* Feb 19 - 23 BAS. Malaysia Aug 19 - 23

* Classes in Singapore, Dubai and Bharain are now held Sunday - Thursday - All other classes are held Monday - Friday



UNIVERSAL HVACR TECHNICAL SCHOOL

2023 SCHEDULE
www.nanceschool.com
 PHONE 1-877-626-2322
 FAX (409) 838-6219

- BASIC
- EPA CERTIFICATION & REFRIGERANT RECOVERY
- ADVANCED
- TROUBLESHOOTING
- CHILLER
- ELECTRICAL
- REFRESHER
- OVERSEAS SESSIONS

WE CAN PROVIDE AN HVACR PROGRAM ADAPTED TO YOUR NEEDS... ANYWHERE WORLDWIDE... ANY TIME...

HVACR WORLD-WIDE TRAINING SCHEDULE 2023



RELIABLY TRAINING PEOPLE ACROSS THE GLOBE SINCE 1976



SEMINAR SCHEDULE JANUARY - DECEMBER 2022

The following seminars are held at our facility in Beaumont, Texas – “Home of the Spindletop Gusher.” Thousands of students have successfully completed training at our facility and overseas. We can bring the training to you at YOUR LOCATION, or you can send your people to us for extensive classroom and laboratory training.

- Basic Air Conditioning and Refrigeration
- EPA Certification & Refrigerant Recovery
- Advanced Air Conditioning and Refrigeration
- Troubleshooting Air Conditioning and Refrigeration
- Electrical for Air Conditioning and Refrigeration
- Chilled Water Systems

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 demonstrated 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.

LODGING: We recommend:



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.

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



UNIVERSAL HVACR TECHNICAL SCHOOL
Registration: jacquetta@nanceschool.com
www.nanceschool.com
409-838-6127 • Fax 409-838-6219



BASIC AIR CONDITIONING AND REFRIGERATION

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 training in HVACR. Twenty-five (25%) percent of this seminar is “hands on” experience in the laboratory.

SESSIONS: (See schedule)

COST: \$2070.00 – Four Day Seminar (lab and study materials included)

JOB SKILLS TOPICS:

- Definitions
- Refrigerant pressure - temperature chart analysis
- Basic refrigeration cycle
- Compressors - in mechanical refrigeration systems
- Condensers - construction, characteristics and types
- Evaporators - construction
- Refrigerant flow controls - types, functions and adjustments
- 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 AND REFRIGERANT 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.

SESSIONS: (See schedule)

COST: \$405.00 - One Day Seminar (lunch, study guide, EPA exam included)

JOB SKILLS TOPICS:

- General Information
- Safety precautions
- Definitions
- Laws and directives
- Refrigerant pumpdown
- Recovery and recycle, reclaiming
- Review of available equipment
- Practice test
- Examination for certification
- EPA approved wallet cards and certificate for successful participants

ADVANCED AIR CONDITIONING AND REFRIGERATION

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.

SESSIONS: (See schedule)

COST: \$2175.00 - Five Day Seminar (lab and study materials included)

JOB SKILLS TOPICS:

- 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 loading and unloading adjustments
- 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
- Scheduled maintenance

“NEW” 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 reflect your equipment which in turn will enhance the learning process and empower your crew.

SESSIONS: Determined by company

COST: Determined Individually

JOB SKILLS TOPICS: Determined by specific needs

TROUBLESHOOTING AIR CONDITIONING AND REFRIGERATION 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.

PREREQUISITE: Basic and Advanced courses.

SESSIONS: (See schedule)

COST: \$2310.00 - Five Day Seminar (lab and training materials included)

JOB SKILLS TOPICS:

- Review of refrigeration systems, including the refrigeration cycle, accessories, water and air-cooled systems and electrical control
- Piping layout and oil problems
- 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 floodback and slugging problems
- Tuning up your system for maximum efficiency

ELECTRICAL TROUBLESHOOTING FOR AIR CONDITIONING AND REFRIGERATION

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. This is a vital class to learn the basics of electricity and troubleshooting.

PREREQUISITE: None.

SESSIONS: (See schedule)

COST: \$1720.00 - Three Day Seminar (lab and training materials included)

JOB SKILLS TOPICS:

- Electrical safety
- Electrical fundamentals
- Use of electrical instruments
- Understanding electrical symbols
- Reading electrical diagrams
- Basic diagnostic, troubleshooting and repair skills
- 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
- Using electrical diagrams to troubleshoot
- Planning the troubleshooting process

HVACR REFRESHER COURSE

RECOMMENDATION: This seminar is appropriate for all of those who have previously attended our Basic, Advanced and Troubleshooting HVACR seminars. It is designed to be taken every 3 years to keep students abreast of any changes, updates or new laws within the HVACR industry and refresh skills learned in prior years.

PREREQUISITE: Basic and Advanced

SESSIONS: (See schedule)

COST: \$2445 - Five Day Seminar (lab and training materials included)

JOB SKILLS TOPICS:

- EPA updates
- Refrigerant updates
- Safety precautions
- Accessories- where they are used and how they work
- Cycle controls
- Refrigerant system cycle controls
- Electrical schematic reading
- Water-cooled condensers and cooling towers
- Split systems
- Troubleshooting the entire system
- Cleaning up after a compressor burnout
- Preventative and scheduled maintenance
- Capacity calculation
- Tuning up systems for maximum efficiency
- Collecting and analyzing data
- Recovery and charging of systems
- Leak detection
- Intro to chilled water systems

“NEW” 5-DAY CHILLED WATER SYSTEMS

RECOMMENDATION: This is a class for technicians that have HVACR experience. The purpose of the course is to give the technician basic knowledge of chilled water systems. The class includes the theory of operation and hands on lab activities operating a chilled water system. Class is limited to 8 attendees.

SESSIONS: (See schedule)

COST: \$2445.00 Five Day Seminar (lab and training materials included)

JOB SKILLS TOPICS:

- Chilled water refrigeration cycle
- Chilled water fluid cycle
- Operation of common refrigeration, fluid and electrical components
- Measuring system fluid capacity
- Measuring fluid flow
- Electrical sequence of operation
- Refrigerant and oil charging
- Electrical troubleshooting
- Refrigerant troubleshooting
- Fluid-side troubleshooting
- Scheduled maintenance

OVERSEAS SESSIONS

RECOMMENDATION: Class is appropriate for anyone involved in the maintenance, troubleshooting and/or repair of air conditioning and refrigeration equipment. This seminar is especially recommended for anyone in the offshore drilling, oil production, marine maintenance, petrochemical, refinery, manufacturing, transportation and institutional industries. Includes technician training for EPA certification. Please bring a laptop, tablet, iPad or (internet capable device other than a phone) to class to take the exam online. This will allow for immediate results and if needed, you will be able to retake any sections missed before leaving the seminar.

COST: \$3200.00 - Five-Day Seminar (lunch, study guide, textbook, EPA exam included)

JOB SKILLS TOPICS:

- Safety, people, equipment and products
- How the refrigeration system works
- Component function and purpose
- Processing a system prior to charging
- Demonstrations of refrigerant recovery, dehydration and charging
- Refrigerants
- Elements of a properly working system
- Effective ways of leak detection
- How to troubleshoot compressors
- Accessories and how they work
- Pumpdown, repair and replacement of compressors
- Air and/or water flow requirements
- Tools and instruments required
- Scheduled maintenance
- Practical troubleshooting
- Collecting and analyzing data
- Systematically isolating refrigeration problems
- Eliminating original cause of component failure
- Clean-up procedures after a compressor burnout
- Eliminating floodback and slugging problems