



NANCE UNIVERSAL HVACR TECHNICAL SCHOOL

Air Conditioning/Refrigeration/ EPA Certification/ Refrigerant Recovery Training

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MACAE' BRAZIL

2010 Overseas Session I : October 18-22

2010 Overseas Session II : October 25-29

MACAE' BRAZIL LOCATION: Faulk Nutec, Avenida Prefeito Aristeu Ferreira da Silva, 1277, Novo Cavaleiros, Macaé/RJ 27930-070

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. Course includes technician training for EPA certification.

Cost: \$2295. USD – Five Day Seminar (study guide, textbook, EPA exam included).

Tuition does not include: lodging, meals & transportation for students.

Past students who wish to retest for EPA Certification may do so on Friday. Cost \$200. USD

Cancellation of classes must be made 21 days prior to the first day of class. Any time after this, payment will be applied to any future scheduling.

Overseas Session I : October 18-22

Job Skills Topics

1. Safety, people, equipment and products
2. How the refrigeration system really works
3. Component function and purpose
4. Processing a system prior to charging
5. Demonstrations of refrigerant recovery, dehydration and charging
6. Refrigerants used in the industry
7. Is the system working, as it should?
8. Effective ways of leak testing
9. How to troubleshoot compressors
10. Accessories and how they work
11. Pump down, repair and replacement of compressors
12. Tools and instruments required
13. Practical troubleshooting
14. Collecting and analyzing data
15. Systematically isolating refrigeration problems
16. Eliminating original cause of component failure
17. Eliminating flood back and slugging problems
18. Refrigerant transition and recovery program
19. Alternative refrigerants and conversion procedures

Overseas Session II : October 25-29

Job Skills Topics

1. Refrigeration cycle review
2. Operation of gauges and P-T chart
3. Measuring superheat and subcooling
4. Refrigerant lubrication
5. Charging procedures
6. Why compressors fail?
7. Basic controls
8. Use of gauges
9. Recovery
10. Capillary tubes and fixed piston devices
11. Evacuation and dehydration
12. Triple evacuation
13. Measuring superheat and subcooling
14. Checking compressors
15. Introduction to electrical
16. Wiring diagram exercises
17. Capacitors, single-phase and simple three-phase motor applications
18. Electronic devices and circuits
19. Lab: Brazing copper-to-copper and copper to steel and brass; Aluminum to copper using Alsolder 500.
20. Test for leaks. Cut open joints to inspect for penetration.
21. Use of epoxy to repair leaks
22. Capacity control
23. Adjusting unloaders
24. Air capacity: total, sensible and latent heat

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