

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: PRINCIPLES OF REFRIGERATION I

Course Number: HACR 1160

Credit Lecture hours: 1 **Credit Lab Hours:** 2 **Contact Hours:** 90

Textbook, Author, and Publisher: To be provided by College Campus

Instructor Information: To be provided by College Campus

Class Location: To be provided by College Campus

Course Description: Presents the proper and safe use of hand tools including power tools and materials in the HVAC Industry. This course also provides for a review of HVAC and refrigeration processes and applications.

Prerequisites: HACR 1150

Co-requisites: None

Learning Outcomes:

On completion of this course, the student will be able to:

1. Identify various types of pipe, tubing, and fittings.
2. Identify metal fasteners.
3. Identify types of refrigerants and refrigerant oil.
4. Identify various types of hand tools.
5. Identify various types of power tools and measuring instruments.
6. Identify soldering and brazing equipment.
7. Demonstrate the ability to cut copper tubing with a tubing cutter.
8. Demonstrate the ability to swage copper tubing
9. Demonstrate the ability to flare copper tubing
10. Demonstrate the ability to bend 180 degree, 90 degree, and 45 degree bends.
11. Demonstrate the ability to set-up and use an air acetylene torch.
12. Demonstrate the ability to set-up and use an oxyacetylene torch set.
13. Demonstrate proper soldering and brazing techniques.
14. Demonstrate the ability to join pipe and copper tubing.

Assessment Measures: To be provided by the College Campus.

Library Resource Center:

The Delta Library and Learning Resource Center is committed to providing quality information and learning resources and services, including technology, in supporting the overall mission of Delta Community College and its commitment to lifelong learning.

Special Accommodations:

Louisiana Delta Community College complies with Section 504 of the Rehabilitation Act, as well as the Americans with Disabilities Act. Students with disabilities who attend the Monroe campus may make a request by contacting the Director of Counseling and Disability Services (See College Directory for contact information.) at the beginning of each semester. Reasonable accommodations will be attempted for students with documented disabilities. If an impairment is identified later in the semester, a non-retroactive accommodation plan will be developed. Students at satellite campuses should contact the Coordinator of Student Affairs at their particular campus.

Title IX:

Louisiana Delta Community College is committed to protecting the rights of students, which includes compliance with Title IX requirements. As such, the institution and members of our community will not tolerate the offenses of dating violence, domestic violence, sexual assault, and stalking. Students with Title IX concerns should contact the College's Title IX Coordinator (See College Directory for contact information.) Students are required to complete Sexual Assault Awareness and Prevention Online Training. Access to this online course will be sent out through the Delta email account.

Student Code of Conduct:

Louisiana Delta Community College encourages an environment of academic integrity and mutual respect. Students should read and follow both academic and behavioral expectations identified in the Code of Student Conduct that can be found online at www.ladelta.edu. Students are expected to act with integrity, respect the rights of others, and conduct themselves in a professional manner. The Honor Code prohibits academic misconduct such as cheating, engaging in unauthorized collaboration, and plagiarism. Violations of the Code of Student Conduct may result in disciplinary action as provided in the Code. Incidents are reported through the online Student Conduct system.