

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: REFRIGERATION SYSTEM COMPONENT DIAGNOSIS AND REPAIR

Course Number: AUTO 1710

Credit Lecture hours: 0 **Credit Lab Hours:** 1 **Contact Hours:** 30

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: This course teaches the procedures and methods necessary to diagnose and repair individual components of the air conditioning system.

Prerequisites: None

Co-requisites: None

Learning Outcomes:

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

Compressor and Clutch

1. Diagnose A/C system conditions that cause the protection devices (pressure, thermal, and PCM) to interrupt system operation; determine necessary action. (P-2)
2. Inspect A/C compressor drive belts; determine necessary action. (P-2)
3. Inspect, test, and/or replace A/C compressor clutch components and/or assembly. (P-2)
4. Remove and reinstall A/C compressor and mountings; measure oil quantity; determine necessary action. (P-1)

Evaporator, condenser, and Related Components

1. Determine need for an additional A/C system filter; perform necessary action. (P-3)
2. Remove and inspect A/C system mufflers, hoses, lines, fittings, O-rings, seals, and service valves; perform necessary action. (P-2)
3. Inspect A/C condenser for airflow restrictions; perform necessary action. (P-1)
4. Remove and reinstall receiver/drier or accumulator/drier; measure oil quantity; determine necessary action. (P-1)
5. Remove and install expansion valve or orifice (expansion) tube. (P-2)
6. Inspect evaporator housing water drain; perform necessary action. (P-3)
7. Remove and reinstall evaporator; measure oil quantity; determine necessary action. (P-3)
8. Remove and reinstall condenser; measure oil quantity; determine necessary action. (P-3)

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.