

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: LUBRICATION AND COOLING SYSTEM DIAGNOSIS AND REPAIR

Course Number: AUTO 1130

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 for the diagnosis and repair of automotive engine lubrication and cooling system.

Prerequisites: None

Co-requisites: None

Learning Outcomes:

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

1. Perform oil pressure tests; determine necessary action. (P-1)
2. Inspect oil pump gears or rotors, housing, pressure relief devices, and pump drive; perform necessary action. (P-2)
3. Perform cooling system, cap, and recovery system tests (pressure, combustion leakage, and temperature); determine necessary action. (P-1)
4. Inspect, replace, and adjust drive belts, tensioners, and pulleys; check pulley and belt alignment. (P-1)
5. Inspect and replace engine cooling and heater system hoses. (P-1)
6. Inspect, test, and replace thermostat and housing. (P-2)
7. Test coolant; drain and recover coolant; flush and refill cooling system with recommended coolant; bleed air as required. (P-1)
8. Inspect, test, remove, and replace water pump. (P-1)
9. Remove and replace radiator. (P-2)
10. Inspect and test fan(s) (electrical or mechanical), fan clutch, fan shroud, and air dams. (P-2)
11. Inspect auxiliary oil coolers; determine necessary action. (P-3)
12. Inspect, test, and replace oil temperature and pressure switches and sensors. (P-2)
13. Perform oil and filter change. (P-2)

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.