

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: TRANSMISSION AND TRANSAXLE DIAGNOSIS AND REPAIR

Course Number: AUTO 1310

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 removal, installation, and reconditioning of manual transaxle and transmission units.

Prerequisites: None

Co-requisites: None

Learning Outcomes:

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

1. Remove and reinstall transmission/transaxle. (P-1)
2. Disassemble, clean, and reassemble transmission/transaxle components. (P-2)
3. Inspect transmission/transaxle case, extension housing, case mating surfaces, bores, bushings, and vents; perform necessary action. (P-3)
4. Diagnose noise, hard shifting, jumping out of gear, and fluid leakage concerns; determine necessary action. (P-2)
5. Inspect, adjust, and reinstall shift linkages, brackets, bushings, cables, pivots, and levers. (P-2)
6. Inspect and reinstall powertrain mounts. (P-3)
7. Inspect and replace gaskets, seals, and sealants; inspect sealing surfaces. (P-2)
8. Remove and replace transaxle final drive. (P-3)
9. Inspect, adjust, and reinstall shift cover, forks, levers, grommets, shafts, sleeves, detent mechanism, interlocks, and springs. (P-2)
10. Measure endplay or preload (shim or spacer selection procedure) on transmission/transaxle shafts; perform necessary action. (P-1)
11. Inspect and reinstall synchronizer hub, sleeve, keys (inserts), springs, and blocking rings. (P-2)

Learning Outcomes continued:

12. Inspect and reinstall speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers. (P-2)
13. Diagnose transaxle final drive assembly noise and vibration concerns; determine necessary action. (P-3)
14. Remove, inspect, measure, adjust, and reinstall transaxle final drive pinion gears (spiders), shaft, side gears, side bearings, thrust washers, and case assembly. (P-2)
15. Inspect lubrication devices (oil pump or slingers); perform necessary action. (P-3)
16. Inspect, test, and replace transmission/transaxle sensors and switches. (P-1)

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.