**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: AUTO 1134

Course Title: Service Techniques III

Credit Hours: 3

Prerequisite: AUTO 1132 Service Techniques II

Division/Discipline: Workforce Training and Economic Development/Auto Technology

Course Description: Service Techniques III is a performance based cap-stone course designed to provide practical work experience for second year students near the completion of their automotive training. Projects that best prepare students for employment will receive highest consideration. Students who enroll in this course must provide their own tools and participate in certain job shadow activities.

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The college reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at disabilityservices@bartonccc.edu.

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

Service Techniques III provides students the opportunity to practice job related skills specific to automotive maintenance and service. This course follows the curriculum standards defined by NATEF (National Automotive Technicians Education Foundation.)

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

## Course Outcomes, Competencies, and Supplemental Competencies:

1. Develop job skills specific to automotive brake repair.

 NATEF external standards 5.A.1 – 5.G.10

1. Inspect/analyze brake system and create repair estimate.
2. Repair brake system and verify correct repair.
3. Document repairs and complete work order.

1. Develop job skills specific to automotive electrical repair.

 NATEF external standards 6.A.1 – 6.H.13

1. Inspect/analyze battery/charging system and create repair estimate.
2. Inspect/analyze lighting/accessory circuits and create repair estimate.
3. Repair automotive electrical circuits and verify correct repair.
4. Document repairs and complete work order.
5. Develop job skills specific to steering and suspension repair.

 NATEF external standards 4.A.1 – 4.F.11

1. Inspect/analyze steering/suspension systems and create repair estimate.
2. Repair steering/suspension systems and verify correct repair.
3. Document steering/suspension repairs and complete work order.
4. Develop job skills specific to engine repair.

 NATEF external standards 1.A.1 – 1.B.14, 1.D.1 – 1.D.14

1. Inspect/analyze engine mechanical problems and create repair estimate.
2. Repair engine mechanical problems and verify correct repair.
3. Document engine mechanical repairs and complete work order.
4. Develop job skills specific to engine performance and emission control system repair.

 NATEF external standards 8.A.1 – 8.F.7

1. Inspect/analyze engine performance/emission control system malfunctions and create estimate for repair.
2. Repair engine performance problems and verify correct repair.
3. Repair computer/emission control system problems and verify correct repair.
4. Document engine performance/emission control system repairs and complete work order.
5. Develop job skills specific to automotive transmission and driveline repair.

 NATEF external standards 2.A.1 – 2.C.24, 3.A.1 – 3.F.8

1. Inspect/analyze automatic transmission/driveline concerns and create estimate for repair.
2. Inspect/analyze manual transmission/driveline concerns and create repair estimate.
3. Perform maintenance and service of automotive transmissions/drivelines.
4. Document transmission repairs and complete work order.
5. Develop job skills specific to automotive heating and air conditioning systems.

 NATEF external standards 7.A.1 – 7.E.4

1. Inspect/analyze heating/air conditioning concerns and create repair estimate.
2. Perform maintenance and service of automotive heating/air conditioning systems.
3. Document heating/air conditioning repairs and complete work order.
4. Develop personal communication and time management skills.

Interview customer and document request.

1. Generate technician work order and document services to be performed.
2. Generate estimate and communicate service needs.
3. Cooperate with lab partner to determine individual responsibilities.
4. Document/communicate services performed.

1. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

# **COURSE OUTLINE**