Emerald Coast Technical College
**Program Syllabus**

# Automotive Service Technology 1

**Education Foundation**

**Program Number: T400700**                              **Program Hours: 1050**

**Instructor:**       Gary Price
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**Mission Statement:**
We prepare and empower today's students to meet the demands of an evolving and competitive workforce.

**Program Description:**
This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Transportation, Distribution and Logistics career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of the Transportation, Distribution and Logistics career cluster.

The content includes but is not limited to broad, transferable skills and stresses understanding and demonstration of the following elements of the automotive industry; planning, management, finance, technical and product skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

The purpose of the Automotive Service Technology 1 program reflects Emerald Coast Technical College's mission as evidenced by the desire to provide students with the training and education that is required to function successfully in the professional workforce.

**Prerequisites:**
None

**Industry Certification:**
ASE Student Certification
ASE professional Certification

**Occupational Completion Points:**

| OCP | Course Number | Course Title | Course Length | SOC Code |
|-----|---------------|--------------|---------------|----------|
| A | AER0014 | Automobile Services Assistor | 300 hours | 49-3023 |

| OCP | Course Number | Course Title | Course Length | SOC Code |
|---|---|---|---|---|
| B | AER0418 | Automotive Brake System Technician | 150 hours | 49-3023 |
| C | AER0453 | Automobile Suspension and Steering Technician | 150 hours | 49-3023 |
| D | AER0360 | Automotive Electrical/Electronic System Technician | 300 hours | 49-3023 |
| E | AER0110 | Engine Repair Technician | 150 hours | 49-3023 |

### Standards

After successfully completing this program, the student will be able to perform the following:

01.0    Proficiently explain and apply required shop and personal safety tasks relating to the automotive industry.
02.0    Explain and apply required tasks associated with the proper use and handling of tools and equipment relating to the automotive industry.
03.0    Demonstrate proficiency in preparing vehicle for routine pre/post maintenance and customer services.
04.0    Explain and apply proficiently the diagnosis, service and repair of drum\disc brake, hydraulics, power assist units, electronic brakes, traction control, stability control systems and miscellaneous (wheel bearings, parking brake, electrical, etc.) systems.
05.0    Explain and apply proficiently the diagnosis, service and repair of front and rear suspensions systems, wheel alignment, and wheels and tires.
06.0    Explain and apply proficiently the diagnosis, service and repair of electrical/electronic system components, battery, starting, charging, lighting, gauges, warning devices, driver information, horn, wiper/washer and accessory systems.
07.0    Explain and apply proficiently the diagnosis, service and repair of engines, cylinder heads, valve train, engine block, lubrication and cooling systems.

**Online Resources:**
CDX Online Automotive Essentials

**Electronic Devices:**
An IPAD or laptop will be available to each student for use in the program.

**Textbook:**
Students may also purchase a textbook from the ECTC bookstore if they desire, but it is not required. All materials are available online

**Tools/Supplies/Materials:**
Students will need basic classroom supplies (pen, pencil, paper, and notebook).  These supplies are to be brought to class on a daily basis. Safety equipment, specific to the occupation, is provided. All major tools are provided. Student's acquisition of basic hand tools during the course of training is highly recommended.

**Grading Scale:**
A = 100-93
B = 92-84
C = 83-70
F = 69 or below
        a grade below 70 is an inadequate competency level expected by industry standards and will
        require repeating that particular OCP.
Incomplete     = I
Incompletes (I) may revert to Failure (F) after 10 days.

**Evaluation/Assessment:**

**<u>Exams:</u>**
The course examinations consist of written knowledge examinations and performance evaluations. A knowledge examination is given upon completion of each major topic assignments. Performance evaluation must be mastered before proceeding to the next assignment. Students are required to master performance evaluations before moving on to the next major topic.

**<u>How You Are Measured (Grades):</u>**
40% Competency/Performance Evaluation (Daily assignments and lab activities)
40% Written Exams
20% Final: Course Completion Exams, Competency/Performance Exams.

**Satisfactory Progress:**
Students will be provided with detailed assignment sheets for each major area/topic of study.  Complete mastery of an area must be achieved before proceeding further. Students are responsible for maintaining a sufficient rate of progress throughout the course, consistent with their individual student ability.

**Instructional Delivery Methods:**
Instruction delivery includes but is not limited to: Face to face, web-based, textbook, video, visual aid, and hands-on.

**Conferences and Assistance:**
11:45 AM – 9:00 PM Monday – Thursday, or as scheduled by appointment.

**Classroom:**
ECTC main campus
761 N. 20th Street
DeFuniak Springs, Florida 32433
Building 100 Room 38

**Class Hours:**
There are multiple options for student hours, they will be listed on each individual student's schedule.

**Office Location:**
ECTC main campus
761 N. 20th Street
DeFuniak Springs, Florida 32433

Building 100 Room 38

**Office Hours:**
Regular office hours for the instructor are 11:45 PM – 9:00 PM, Monday – Thursday, or as scheduled by appointment.

**Attendance:**
Students are expected to be on time and attend regularly scheduled lectures and labs. Students must have instructor permission when leaving the classroom / lab area.
In the event a student must be absent they should notify the instructor prior to the day /days of being absent. In the event there is and unexpected need for being absent the student should call or email the instructor as soon as possible.
The first infraction will result in a verbal warning, the second infraction will result in a student write-up, upon the third infraction of this rule the student, the instructor, and a counselor will have a conference and a student counseling form will be filled out and sent to appropriate parties (financial aid, workforce, VA, Etc.)

Students will be required to make up any work that puts them behind due to absences, they must also meet all requirements of the coursework, including labs and hands on competencies, at the end of the course any coursework not done will result in an incomplete, after 10 days an incomplete will revert to a failure of that course. If a student is having problems making up course work they should see the instructor for possible supervised makeup hours.

**Meeting Times/Contact Hours:**
Regular contact hours for the instructor are Mon. – Thur., 11:45 PM – 9:00 PM, or as scheduled by appointment.  Students may also contact the instructor via email, [PriceG@Walton.K12.FL.US](mailto:PriceG@Walton.K12.FL.US), or telephone,
850-892-1240 ext. 5161.

**Equipment:**
All needed tools and equipment are supplied by the school, However it is suggested that students begin purchasing their own tools and storage box for them, As they will be necessary when they begin working in the industry.

**Safety:**
- Safety is priority one.
- This program follows CDC guidelines.
- Touch-free temperature and hand sanitizing stations have been installed.
- Report any unsafe conditions to the instructor immediately.
- If you are not comfortable or confident with any lab, project, tools, or equipment stop and notify instructor.

**Emergency Procedures:**
- Emergency exits are clearly marked.
- As part of regular classroom instruction, students will be asked to participate in regular safety and emergency drills.
- Fire extinguishers are located in each area.

**Rules and Regulation / Policies and Procedures:**
Students will follow all rules/regulations outlined in the Emerald Coast Technical College Catalog.

**General Information:**
Refer to the ECTC Catalog located at http://www.ectc.edu, for additional information:
- Career and Counseling Services
- Services for Students with Disabilities
- Student Grievance Procedures
- Leave of Absence
- Withdrawal
- Forms