



Emerald Coast Technical College
Program Syllabus
Automotive Service Technology 2



Education Foundation

Program Number: T400800

Program Hours: 750

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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.

Prerequisites:

None

Industry Certification:

National Automotive Technicians Education Foundation – NATEF
National Institute for Automotive Service Excellence – ASE

Occupational Completion Points:

OCP	Course Number	Course Title	Course Length	SOC Code
A	AER0503	Automotive Engine Performance Technician	300 hours	49-3023
B	AER0257	Automatic Transmission and Transaxle Technician	150 hours	49-3023
C	AER0274	Manual Drivetrain and Axle Technician	150 hours	49-3023
D	AER0172	Automotive Heating and Air Conditioning Technician	150 hours	49-3023



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Standards

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

- 01.0 Explain and apply proficiently the diagnosis, service and repair of engines, ignition, fuel, air induction, exhaust, computer engine and emission control systems.
- 02.0 Explain and apply proficiently the diagnosis, service, repair and overhaul of automatic transmissions/transaxles.
- 03.0 Explain and apply proficiently the diagnosis, service and repair of manual drivetrains, clutches, transmissions/transaxles, drive and half-shaft universals, constant velocity joints, rear axle differential assembly, limited slip, four-wheel drive and all-wheel drive.
- 04.0 Explain and apply proficiently the diagnosis, service and repair of heating and air conditioning, refrigeration, compressors, compressor clutches, evaporators, receiver driers, accumulators, condensers, heating and engine cooling, related control systems, refrigerant recovery, and recycling and handling.

Textbook:

Modern Automotive Technology 8th Edition by James E. Duffy
ISBN #: 978-1-63126-375-0

Workbook:

Modern Automotive Technology 8th Edition by James E. Duffy
ISBN #: 978-1-63126-376-7

Online Resources:

None

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.



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Evaluation/Assessment:

Exams:

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.

How You Are Measured (Grades):

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, textbook, video, visual aid, hands-on, and web-based.

Conferences and Assistance:

7:30-5:23, Monday – Thursday, or as scheduled by appointment.

Classroom:

761 N. 20th Street DeFuniak Springs, Florida 32433

Building 100 Room 38

Class Hours:

Student hours are 8:00-4:00 (11:45-12:15 lunch), Monday – Thursday.

Office Location:

761 N. 20th Street DeFuniak Springs, Florida 32433

Building 100 Room 38

Office Hours:

Regular office hours for the instructor are 7:30 – 5:23, 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 an unexpected need for being absent the student should call or email the instructor as soon as possible.



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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., 7:30 – 5:00, or as scheduled by appointment. Students may also contact the instructor via email, PriceG@Walton.K12.FL.US, or telephone, 850-892-1240 ext. 5161.

Equipment:

All needed equipment is supplied by the school

Safety:

- Safety is priority one.
- 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 Program Handbook and the Emerald Coast Technical College Catalog.

General Information:

Refer to the ECTC Catalog and program handbook, both 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