

Automotive Service Technician

Instructor: John Branch

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Contact for Information:

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Coldwater, MS 38618
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Jobs Related to the Program

Job Title	Average Annual Salary
Automotive Service Technician	\$29,000 - \$50,000
Automotive Parts Specialist	\$33,000 - \$37,000
Automotive Engineer	\$44,000 - \$98,000
Dealership Service Writer	\$46,000 - \$60,000
Service Center Business Owner	\$45,000 - \$54,000

Applied Academic Credit

Students who complete Automotive Service Technology I and Automotive Service Technology II will receive four credits, which can be used towards their elective credits needed to satisfy graduation requirements.

National Certification

Automotive Service Technology II student will have the opportunity to take 10 ASE National Certification Tests during year 2 of the course.

Course Descriptions

Automotive Service Technology I

The Automotive Service Technology I course contains an introduction to shop operations, safety, tools and equipment, and preparing the vehicle for both service and the customer. The engine repair course focuses on the overall internal combustion engine, cylinder and valve train, and lubrication and cooling systems. The transmission course is an introduction to both automatic and manual drive train and axles. This course also contains an introduction to electrical/electronic information and terminology. The Basic Electrical/Electronic Systems course contains electrical/electronic system theory, battery systems, starting systems, and charging systems. It also contains an introduction to disc brakes, drum brakes, and antilock brakes.

Unit	Title	Hours
1	Orientation	5
2	Workplace Employability Skills	5
3	Automotive Shop and Personal Safety	10
4	Tools and Equipment	10
5	Preparing Vehicles for Service	5
6	Maintenance	10
7	Wheels and Tires	10
8	Engine Repair	15
9	Engine Cylinder Head and Block	15
10	Engine Cooling System	10
11	General Brakes	10
12	Hydraulic Brake Systems	11
13	Disc Brake Systems	12
14	Drum Brake Systems	12
15	Basic Electrical/Electronic Systems	25
16	Battery System	15
17	Charging System	18
18	Starting System	17
19	Body and Lighting Systems	25
20	Automotive Heating, Ventilation, and Air Conditioning (HVAC)	40
Total		280

Automotive Service Technology II

The Engine Performance I course contains a review on shop operation, safety, tools and equipment, and preparing the vehicle for both service and customer. The Advanced Electrical/Electronic Systems course contains information on lighting systems, concepts of gauges, warning devices, driver information systems, horn systems, wiper/washer system, and accessories system diagnostic repair. The Engine performance and Steering and Suspension course contains information on fuel, air inductions, and exhaust systems; concepts of emission control system; concepts of engine service; general suspension/steering theory; steering system inspection; diagnosis, repair; concepts of front, rear, and miscellaneous systems; and wheel/tire alignment concepts. The Automotive Heating and Air information is for service and maintenance to the heating ventilation, and engine cooling system.

Unit	Title	Hours
21	Safety and Workplace Employability Skills Review	15
22	Suspension and Steering Systems Operation	13
23	Steering System Service	15
24	Suspension System Service	15
25	Wheel Alignment	13
26	Engine Performance	15
27	Computerized Controls	13
28	Ignition System	13
29	Fuel, Air Induction, and Exhaust Systems	15
30	Emission Control Systems	13
31	Antilock Brakes and Traction Control	13
32	Power-Assisted Brake Systems	13
33	Related Brake Systems	13
34	Automatic Transmission/Transaxle	15
35	Automatic Transmission/Transaxle Service	15
36	CVT and Hybrid Transmission/Transaxle	13
37	Manual Drivetrain and Axles	15
38	Clutch	13
39	Drive Shaft, Half Shafts, Universal and Constant-Velocity Joints	15
40	Differential and Drive Axles	15
Total		280

The Senatobia-Tate County Career & Technical Center does not discriminate on the basis of race, color, national origin, sex, or disability in its programs and activities and provide equal access to all students served by our center.

The following person has been designated as the discrimination compliance officer and will handle inquires and the filing of grievances of discrimination in all areas except concerns relating to disabilities:

*Amy Williams, Title IX and Grievance Contact
awilliams@tcsdms.org
662-562-5861*

The following person has been designated as the Section 504/ Disabilities Act compliance officer and will handle inquiries regarding the discrimination on the basis of disabilities:

*Kristie Foster, 504 Coordinator
kfoster@tcsdms.org
662-562-5861*

**** A lack of English language skills is not a barrier to participation in any course at the Senatobia-Tate County Career & Technical Center.**