



Automotive Mechanics Technology

Sypek Center

Automotive Technology is designed to meet the ongoing demand for trained, certified Automotive Technicians. Our program includes high-tech training in the following areas: suspension and steering, brakes, electrical/electronic systems, engine performance, engine repair, automatic transmission, transaxle, manual drivetrain and axles, and heating and air conditioning. Additionally, students are introduced to the workings of computer diagnostics as they relate to modernized transmission systems. These areas combine to give the students exposure to the entire field. Students will work on vehicles using state-of-the-art equipment for routine maintenance, diagnosis, and repair.

Our program is an accredited training program powered by the ASE Education Foundation. Automotive Technology prepares students to take a series of Automotive Service Excellence (ASE) Certification Tests to gain an entry-level position in the field. Students will also have the skills to move into higher levels of training for more specialized positions by earning industry-valued credentials such as OSHA 10 & stackable ASE Entry-Level certifications. The National Institute for Automotive Service Excellence (ASE) Entry-Level certification tests are designed to indicate a satisfactory level of practical knowledge-based readiness for the workforce in candidates seeking a career in the automotive service industry. The task lists and test specifications for Entry Level Certification reflect the Master Automobile Service Technology (MAST) Series. All students in this program have the opportunity to join their respective Career Technical Student Organization, SkillsUSA. Additionally, upon completion of the program, students may be afforded prior learning assessment (PLA) credit opportunities through Mercer County Community College.

Automotive Mechanics Technology I

Grade Level: 11 Credits: 20

Year one (1) of the Automotive Technology Program prepares students to apply technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of vehicles and mobile equipment. Includes instruction in the areas of brake systems, engine repair, electrical systems, starting & charging systems, light and driver information systems, motorized accessories and electrical components, general engine performance, and fuel delivery. Students will earn their OSHA 10 certification in this course along with the opportunity to earn stackable ASE Entry-Level certifications in Automobile Service Technology, Suspension and Steering, Brakes, Engine Repair, Electrical/Electronic Systems, Maintenance, and Light Repair, and Engine Performance.

Automotive Mechanics Technology II

Grade Level: 12 Credits: 20

Year two (2) of the Automotive Technology includes overall emissions systems, manual drivetrain, four-wheel drive, hydraulics, front and rear wheel drive, automatic and manual transmissions, and heating and cooling systems. This course continues with the opportunity to earn stackable ASE Entry-Level certifications in Drivetrain and Axles, Transmission/Transaxle, and Heating and Air Conditioning. This course will culminate with an ASE Auto Maintenance and Light Repair Certification Test (G1). Second-year students have the opportunity to engage and interact with local business partners while learning to demonstrate essential employability and technical skills in the automotive industry.



Sypek Center
129 Bull Run Road
Pennington, NJ 08534
609.737.9784

Industry Valued Credentials & Certifications

OSHA 10 certification
Automotive Service Excellence (ASE)
Professional G1 – Auto Maintenance and Light Repair Certification
Articulation Agreements
Mercer County Community College



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