

It takes more than the turn of a key to make a car go. Working on today's cars requires and understanding of the science and technology that goes into the modern automobile. The Automotive Technology program at Edison Career and Technology High School will introduce students to the history, evolution and systems of the automobile. Students will gain necessary experience needed to diagnose,

make up today's automobiles. Automotive
Technology is continually changing due
to advances in other technological fields.
This course will help students understand
how mechanical and electrical systems
work through hands-on labs and projects.
Knowledge in these automotive systems will
prepare students for real life problem solving.
This course uses a combination of older
technology and the latest tools and equipment
available for automotive diagnosis.



CAREER OPPORTUNITIES

- Professional Mechanic
- Lube Technician

maintain, and fix the many systems that

- Tire Technician
- Parts Counter Person
- Service Writer
- Motorcycle Technician
- Power Sports Technician
- Marine Technician
- Fleet Maintenance Technician



POST-SECONDARY EDUCATION OPPORTUNITIES

- Monroe Community College
- Alfred State
- Morrisville State
- Universal Technical Institute
- Motorcycle Mechanics Institute
- Ohio Technical College
- University of Northwestern Ohio
- NASCAR Technical Institute
- WyoTech





PROGRAMS OF STUDY

FOUNDATIONAL COURSES

CTE Foundations: Manufacturing

9th Grade // 1 CTE Credit

Career Research and Exploration

Safety, Tools, and Materials

Basic Manufacturing and Metalworking

Introduction to Integrated Technology

10th Grade // 2 CTE Credits

Rotation of Experiences in Metalworking

Automotive Technology, Advanced

Manufacturing, Engineering and Optical Technology

CAREER MAJOR COURSES

Auto Tech I

11th Grade // 2 CTE Credits

Wheel, Tire & Wheel Bearing Diagnosis and Repair

Steering and Suspension Repair

Disc Brake Systems

Drum Brake Systems

Antilock Braking Systems

Traction Control Systems

Auto Tech II

12th Grade // 2 CTE Credits

Electrical and Electronics

Schematic Reading

Accessory Installation and Operation

Engine Diagnostics

Engine Mechanical Testing

NYS Inspection



EMPLOYABILITY PROFILE:

The Proficient Automotive Technology Student will...

- Demonstrate employability skills that will help them get a job and meet employer's professional expec-tations.
- Demonstrate academic knowledge and skills that meet postsecondary requirements.
- Consistently demonstrate safe practices and healthy relationships.
- Properly select, use, store, and maintain all tools and equipment.
- Effectively read a variety of materials and communicate in a variety of situations.
- Accurately solve mathematical calculations, and apply geometric concepts, in context.

- Accurately measure within industry-standard tolerances.
- Demonstrate GRIT. Persevere through challenges and not give up.
- Prepare vehicle for service.
- Diagnose and repair disc brake systems.
- Diagnose and repair drum brake systems.
- Diagnose and repair steering and suspension systems.
- Inspect and adjust manual drive trains.
- Diagnose and repair electrical/ electronic components and systems.
- Inspect tires and perform tire service.

- Evaluate the condition of a battery and determine what action should be taken.
- Diagnose and repair the starting system.
- Diagnose and repair charging systems.
- Inspect and repair lighting and accessory systems.
- Inspect and identify parts of heating and cooling systems.
- Demonstrate proper torch and welder operation.
- Inspect and replace engine performance parts.
- Inspect and repair hydraulic brake systems.

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