

AUTOMOTIVE MECHANICS INSTRUCTOR: MR. TRAVIS PAYNE

Automotive Mechanics

Make it Go Again

Necessary Skills:

- Mechanical Knowledge
- Active Listening
- Control Precision
- Communication
- Physical Strength
- Manual Dexterity
- Time Management
- Deductive Reasoning
- Reading & Interpreting

JOB DEMANDS

Working as an Automotive Technician is not for everyone.

Most jobs in this field require a great deal of physical exertion, moving constantly and repetitively.

Automotive shop work is dangerous, with techs working on operating engines and drive-lines, personal protective equipment is a must.

Automotive techs must be able to multi-task and move between several assignments.

Auto Techs must constantly update their skills.



Keep America Moving!

Automotive service technicians inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Automotive service technicians' responsibilities have evolved from simple mechanical repairs to high-level technology-related work. The increasing sophistication of automobiles requires workers who can use computerized shop equipment and work with electronic components while maintaining their skills with traditional hand tools.

Today, integrated electronic systems and complex computers regulate vehicles and their performance. Technicians must have an increasingly broad knowledge of how vehicles' complex components work and interact. They also must be able to work with electronic diagnostic equipment and digital manuals and reference materials.

Work & Wages

Automotive Tech:

\$13-24/hr

Highly skilled Auto Techs are sought by numerous employers in Southwest Pennsylvania!

Sources: bls.gov

cwds.state.pa.us

Program of Study advantage:

By completing all of your task list and NOCTI tests, you will be eligible to receive Articulated Credits (college credit for CTC classes) toward your Associates Degree—saving you time and \$\$\$!

Take the Right Academic Classes !

Math

Algebra I
Algebra II
Geometry
College Prep Math recommended

English

College Prep English I
College Prep English II
College Prep English III
College Prep English IV

Science

Biology
Chemistry
Physics

Humanities

Civics
U.S. History
World History



**Automobile/Automotive
Mechanics
Technology/Technician
CIP #47.0604**

Colleges that are participating in the Statewide Articulation Agreement for this program include:

- Johnson College
- Community College of Philadelphia
- Commonwealth Technical Institute
- Luzerne County Community College
- Penn College of Technology
- Delaware County Community College
- Northampton County College
- Thaddeus Stevens College of Technology
- Nashville Auto/Diesel College
- Ohio Technical College



Clothing/Safety requirements:

1st Year: Safety Glasses (1st pair supplied by school)

Twill workshirt (preferably black) –Twill workpants or jeans (clean and without holes) (supplied by student)
Required: 2nd week of school

2nd Year: Safety Glasses (1st pair supplied by school)

Twill workshirt (preferably black) –Twill workpants or jeans (clean and without holes) (supplied by student)
Required: 1st day of school

3rd Year: Safety Glasses (1st pair supplied by school)

Twill workshirt (preferably black) –Twill workpants or jeans (clean and without holes) (supplied by student)
Required: 1st day of school

Industry Certifications offered:

- Pa State Safety Inspection Mechanic Certification
- Pa State Emission Inspector Certification
- Pa SkillsCertificate in Automotive Technician Core
- *NOCTI (National Occupational Competency Test)

Student Organization:

Skills USA

AUTO MECHANICS COMPETENCY TASK LIST

1st Year (360 hours)	2nd Year (360 hours)	3rd Year (360 hours)
Foundation Studies & Basic Shop Practices (90)	Foundation Studies (20)	Foundation Studies (20)
Engine Repair (120)	Brakes (90)	Advanced Engine Performance (80)
Manual Transmission & Drive Train (90 hours)	Steering & Suspension (80 hours)	Advanced Electrical/ Electronics (90)
Basic Electrical (60)	Intermediate Electrical/ Electronics (90)	Heating & Air Conditioning (40)
	Engine Performance (80)	Automatic Transmission & Transaxles (50)
		Pa State Inspection (16)
		Pa Emission Inspection (16)
		NOCTI Preparation (48)

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