

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

Pierre Howard and Richard
Antongeorgi, Instructors

INDUSTRY CERTIFICATIONS

- Automotive Technician (ASE)
- Automotive Technician Advanced
- Automotive Technician Core
- Automotive Technician Standard
- Customer Service
- National Automotive Student Skills Standards
- National Career Readiness
- Workplace Readiness Skills for the Commonwealth

POSSIBLE CAREER PATHWAYS

- Auto Mechanic
- Transmission Mechanic
- Auto Repair Estimator
- Brake Mechanic
- Tire Specialist
- Tune-up Specialist
- Auto Mechanic Helper

COLLEGE AND CAREER OPPORTUNITIES

- Universal Technical Institute
www.uti.edu/
- WyoTech www.wyotech.edu/
- Know How Virginia
www.knowhowvirginia.org/
- Tidewater Community College
www.tcc.edu/
- College Board
www.collegeboard.com/
- Virginia Career View
www.vaview.vt.edu/

STARTING SALARY

\$36,200 - \$40,160

Earning may vary by specialty

Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2016-17 Edition*, Automotive Service Technicians and Mechanics, on the Internet at <http://www.bls.gov/ooh/installation-maintenance-and-repair/automotive-service-technicians-and-mechanics.htm>

This automotive program is NATEF
Accredited



**The Auto Mechanics course participates
in the SkillsUSA co-curricular club.



PROGRAM DESCRIPTION

This two-year course utilizes a cluster approach that allows students and opportunity to gain experience in each of the automotive servicing areas. The students will learn how to make minor repairs, to tune-up engines, to change and balance tires, to install shock absorbers, to do oil changing, to do chassis lubrication, and to perform routine maintenance procedures. Electrical systems and components of the cooling system also studied. Students also receive instruction in cost estimation and in following technical specifications, automotive schematics and diagrams. At the conclusion of this course, students will be knowledgeable of the various automotive servicing areas and employable in this industry. Interdisciplinary skills are the cornerstone for quality, high paying automotive occupations of the future. This course is designed to build these skills.

PROGRAM CONTENTS/SKILLS

ENGINE REPAIR

- General
- Lubrication and Cooling Systems

AUTOMATIC TRANSMISSION AND TRANSAXLE

- General
- In-Vehicle Transmission/Transaxle

MANUAL DRIVE TRAIN AND AXLES

- General
- Clutch
- Differential Case Assembly
- Drive Axles

SUSPENSION AND STEERING SYSTEMS

- General
- Related Suspension and Steering Service
- Wheels and Tires

BRAKES

- General
- Hydraulic System-
- Drum Brakes-
- Disc Brakes
- Miscellaneous (Wheel Bearings, Parking Brakes, Electrical, Etc.)

ELECTRICAL/ELECTRONIC SYSTEMS

- General
- Battery Service
- Starting, Charging and Lighting Systems

HEATING AND AIR CONDITIONING

- General
- Refrigeration System Components
- Heating, Ventilation, and Engine Cooling Systems

ENGINE PERFORMANCE

- General
- Fuel, Air Induction, and Exhaust Systems

REQUIRED SUPPLEMENTAL TASKS

- Shop and Personal Safety
- Tools and Equipment
- Preparing Vehicle for Service
- Preparing Vehicle for Customer

FOR FURTHER INFORMATION contact (757) 892-3300 or schools.nps.k12.va.us/ntc