



Career & Technical Education (CTE)

Automotive Technology I



www.moboces.org
(315) 361-5700



★ Overview

Automotive Technology is a NATEF (National Automotive Technicians Education Foundation) certified program that includes rigorous academic instruction using a college-level textbook. The course emphasizes complex problem-solving skills and basic properties of applied chemistry and physics. Students study auto systems, diagnostic equipment operation, and more. A fully equipped laboratory affords students hands-on training and instruction. Project-based learning includes engine disassembly, parts identification, and re-assembly. Students study advanced elements of automotive repair technology in their senior year and gain experience working on customer projects and industry-based jobs. Students in good standing may complete an internship with a local business.

Juniors who successfully complete Auto Tech I may continue on to our embedded Auto Tech class for senior year, located at Nye Automotive in Oneida. (See next page.)

★ Units of Study

- Steering and Suspension Systems
- Mechanical, Hydraulic and Electrical Braking Systems
- Traction Control and Vehicle Stability Systems
- Exhaust and Vehicle Emission Control Devices
- Vehicle Maintenance and Lubricating Systems
- Engine Control and Performance Systems
- Electrical and Electronics

★ Career Options

- Automotive Technician
- Automotive Service Manager
- Automotive Claims Adjuster
- Factory Service Representative
- Aviation Mechanics
- Service Writer
- Parts



★ Course Credits

With the completion of the 2-year program, a student would earn a total of 7.5 credits:

- 3 Units of CTE
- 1 Unit each of English 12, Math, and Science
- 1 Unit of Government and Economics
- .5 Unit of Career and Financial Management

Eligible for NYSED's 4+1 Graduation Option

★ Equipment Needed

- Professional style work clothes, leather work boots
- Shop manual



★ Class Format

Classroom instruction, hands-on projects, internships

★ Features and Benefits of CTE

- **Work-Based Learning:** Internship experiences with local business partners provide students with employment connections and networking opportunities.
- **Technical Endorsement:** Students may earn a Technical Endorsement to their Regents Diploma by passing a nationally recognized industry exam.
- **Industry Credentials:** Students may gain industry credentials by earning professional certifications, licenses, and other credentials through CTE courses.

★ Leadership Opportunities through CTE

- SkillsUSA & National Technical Honor Society
- Regional, State and National competitions

★ College Articulations/Industry Connections

- Alfred State College
- Lincoln Technical Institute
- SUNY Canton & SUNY Morrisville
- Universal Technical Institute
- University of Northwestern Ohio
- Automotive Service Excellence (ASE) Accreditation
- National Automotive Technicians Education Foundation (NATEF)
- Snap-On Industrial Tools
- Hunter Engineering Company
- NAPA/Advanced Auto/Auto Zone

★ More Information

Contact your guidance counselor, call our CTE office, attend an open house, or visit us online.



Career & Technical Education (CTE)

Automotive Technology II (Embedded at Nye Automotive Group)



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(315) 361-5700



★ Overview

Students who have successfully completed Auto Tech I during their junior year are able to move up to our unique Embedded Auto Tech Program for their senior year. The program meets daily at Nye Automotive Group in Oneida and offers students an opportunity to gain both rigorous academic instruction and practical, hands-on training in a real-life workplace setting alongside industry professionals.

Students continue to follow the NYSED-approved and NATEF-certified curriculum for Auto Tech II and also have opportunities to complete internships, shadow service technicians and earn auto manufacturer certifications.

★ Units of Study

- Basic Mechanical Systems
- Diagnostic Equipment Operation
- Brake Systems, Suspension and Steering
- Engine Disassembly and Re-Assembly
- Parts Identification
- Advanced Automotive Repair
- Auto Industry Business and Operations

★ Unique Features

- Project-based learning opportunities
- Completing projects for live customers
- Behind-the-scenes look at a large-scale local dealership group that includes car sales, repair and collision service for multiple vehicle makes.

★ Articulation Agreements

- SUNY Morrisville (Ford Asset Program Scholarships)
- Lincoln Technical Institute
- Universal Technical Institute
- SUNY Canton

★ Career Options

- Automotive Service Manager
- Automotive Technician
- Automotive Claims Adjuster
- Factory Service Representative
- Aviation Mechanics
- Service Writer

★ Class Format

- Classroom instruction will be followed by students and Instructors going into the various dealership shop areas to do live work and observe technicians.
- Technicians will afford students the opportunity to observe first-hand trouble shooting.



★ Benefits of an Embedded Program

- **Work-Based Learning:** Daily experiences with a local Business partner provides students with employment opportunities.
- **Technical Endorsement:** Students may earn a Technical Endorsement to their Regents Diploma by passing a nationally recognized industry exam.
- **Industry Credentials:** Students may gain industry credentials by earning professional certifications, licenses, and other credentials through CTE courses.
- **Employment Opportunities:** Students may be considered for employment by the partner dealership or other local businesses.
- **Tuition Reimbursement Opportunities:** Students may be able to apply for tuition reimbursement through individual auto manufacturers to continue their education and training.

★ More Information

Contact your guidance counselor, call our CTE office, attend an open house, or visit us online.

