Course Description: A two-year program based on the National Automotive Technician Education Foundation (NATEF) model for Maintenance and Light Repair. The National Automotive Technician Education Foundation evaluates entry-level technician training programs against standards developed by the automotive industry and accredits qualifying programs.

Prerequisites: People with good diagnostic and problem solving skills, and whose training includes basic electronic skills, should have the best opportunities.

1 Year/2 Years: 2 Years

Location: Southern Adirondack Education Center, F. Donald Myers Education Center

Course Objective: The Automotive Technology program is designed to graduate entry-level technicians with a broad skill set, a solid foundation in electrical/electronics, and general understanding of all automotive systems.

Course Topic Outline:
- Introduction and Orientation
- Introduction to Auto Shop and Personal Safety
- Tools and Equipment
- Looking for Information
- Preparing Vehicle for Service Opportunities
- Preparing Vehicle for Customer
- Basic Service
- Engine Repair
- Automatic Transmission
- Manual Drive Train and Axles
- Suspension and Steering
- Brakes
- Electrical/Electronic Systems
- Heating and Air Conditioning
- Engine Performance
- English Language Arts
- Mathematics
- Science
- Electrical/Tolerances
- NYS Motor Vehicle and Motorcycle Inspection
- Portfolio
- Work-Based Learning
- Developing an Employment Plan
- Seeking/Applying for Employment
- Accepting Employment
- Communicating on the Job
- Interpreting the Economics of Work
- Maintaining Professionalism
- Adapting/Coping with Change
- Solving Problems and Critical Thinking
- Maintaining a Safe and Healthy Environment
- Demonstrating Work Ethics and Behavior
- Demonstrating Technology Literacy
- Maintaining Interpersonal Relationships
- Demonstrating Teamwork
- Demonstrating Financial Literacy

Student Course Requirements: Students are expected to: complete Task Sheets For Assigned Jobs, complete all tests, quizzes, unit tests, final exam, notebook, homework and wear appropriate attire.

Textbooks/Materials Resources: CDX MLR, 2017 NATEF Edition; Goodhart-Wilcox, Teacher Resource Materials (PowerPoint presentations, transparencies), Test Generation Software, Various supporting video tapes; Valvoline Oil Certification; ALLDATA Repair Manuals; Mitchell ProDemand Service Manuals.

Assessments/Technical Assessments: Automotive Service Excellence (ASE) - ASE Student Certification in Maintenance and Light Repair, Student Portfolio.

Grading System: Quizzes 10-40 points | Projects 50-100 points | In-Class Assignments 10-40 points | Tests 50-100 points | Homework/Journal 5-15 points

Attendance & Class Participation: The WSWHE BOCES has an attendance policy that requires students to miss no more than 18 days across the school year. For those times when it is necessary to be absent, a written note from the parent/guardian will be expected the next class day. More specifically, students are expected to participate fully in the classroom and laboratory. Good attendance is mandatory for a student to be successful in the Automotive Technology Program.
The future of career success starts here.

Activities/Labs/Projects/Clinics:
Students will complete CDX task sheets in the following areas:
- Introduction to Auto Shop and Personal Safety
- Tools and Equipment
- Looking for Information
- Preparing Vehicle for Service
- Preparing Vehicle for Customer
- Basic Service
- Engine Repair
- Automatic Transmission
- Manual Drive Train and Axles
- Suspension and Steering
- Brakes
- Electrical/Electronic Systems
- Heating and Air Conditioning
- Engine Performance
- New York State Vehicle Inspection

Students that meet the Work-Based Learning requirements (page 4) will perform a 2-week internship at an automotive related job site in both year one and two of the program. Students must also complete a portfolio to include resume, cover letter, letters of reference, letters of application, samples of task sheets and written assignments, awards, etc.

Students will be allowed to perform clinic work on customer vehicles once they have been properly trained and have completed the corresponding task sheet(s).

Student Provided Material List
- Notebook, Work Boots, Uniform

Industry Certification:
National Institute for Automotive Service Excellence (ASE) Students will also be prepared to take the test for NYS Department of Motor Vehicle Inspector Certification

Articulation Agreements:
Each Career and Technical Education (CTE) program is geared to ready students for the world of work and for the rigors of post-secondary coursework. To that end, each program has worked with area colleges to obtain articulation agreements that allow for advance standing or the issuance of credit to those CTE students meeting all program requirements and articulation agreement standards. The colleges WSWHE BOCES has an articulation agreement with are:

- Ohio Technical College
- SUNY Delhi
- Hudson Valley Community College
- Morrisville State College
- Universal Technical Institute
- University of Northwestern Ohio

Related Careers/Post-Secondary Training:
Automotive Machinist, Parts Person, Salesperson, Equipment Sales, Service Management

ELA/Math Credit Integrated Academic Overview:
Each CTE program offered at the WSWHE BOCES has five (5) major curriculum elements that acquire over a one year or two year period. Two (2) of the five (5) curriculum elements include English Language Arts and Mathematics. These program elements are taught using a co-teaching model, which teams the CTE subject experts and certified English and Math instructors. Topics in English and Math are tied to specific business and industry course content, which illustrates to students how academic material and business knowledge and skill relate to one another. English and Math elements are taught at the commencement level and meet NYS Standards for students to obtain one (1) credit for each over a two-year period.
Program specifics are as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commencement Level Math</td>
<td>54</td>
</tr>
<tr>
<td>English Language Arts</td>
<td>54</td>
</tr>
<tr>
<td>1 credit = 108 hours</td>
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</tbody>
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**Career & Financial Management Credit Overview:**

Each CTE program offered at the WSWHE BOCES offers a Career & Financial Management credit to all students who successfully complete a CTE program. This curriculum element is comprised of two major parts; (A) Introduction to Occupations and (B) Nature of Industry. Part A is delivered through integrated class assignments, while Part B is automatically delivered due to the nature of CTE.

**Student Affiliated Organization:**

Skills USA

**National Technical Honor Society Nomination Requirements:**

Students may be eligible.

**WBL Experiences/Requirements:**

Each CTE program has a Work-Based Learning experience. This means that all students prior to the end of the second year are given the opportunity to be exposed to the operation of a business and specific job duties related to careers in their CTE area. This internship is designed to connect the skills and knowledge learned in the CTE classroom with the real world requirements of a business. Students must demonstrate good attendance, attitude, internship records, and work ethics, as well as respect for others and property.

The Washington-Saratoga-Warren-Hamilton-Essex BOCES does not discriminate in its programs and activities, including employment and admission as applicable, on the basis of actual or perceived race, color, creed, sex, sexual orientation, national origin, religion, age, economic status, marital status, veterans’ status, political affiliation, domestic victim status, use of a guide dog, hearing dog or service dog, disability, or other classifications protected under federal or state law, and provides equal access to the Boy Scouts and other designated youth groups. The designated district compliance officer(s) will coordinate compliance with the nondiscrimination requirements of Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990, as amended, the Boy Scouts of America Equal Access Act, and the New York State Human Rights Law. The BOCES Civil Rights Compliance Officer is: Turina Parker, Washington-Saratoga-Warren-Hamilton-Essex BOCES, 267 Ballard Road, Suite 5, Wilton, NY 12831. phone: (518) 581-3716, email: tuparker@wsweboces.org. Complaints may also be filed with the Office for Civil Rights, New York Office, U.S. Department of Education, 32 Old Slip, 26th Floor, New York, NY 10005- 2500, phone (646) 428-3800, fax (646) 428-3843, email:OCR.NewYork@ed.gov.