



Syracuse City School District Automotive Technology Program Reapproval Self-Study Report

Career and Technical Education

March 2023

Automotive Technology Program Reapproval Self-Study Report

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The Self-Study Process

The self-study is an important step in the career and technical education approval process and provides for an in-depth evaluation of the program of study. Its purpose is to bring together primarily internal stakeholders to review the CTE program and propose relevant modifications.

[NYSED Self-Study Process](#)

Program Information

Automotive Technology is a four-year pathway designed to provide students with basic mechanical knowledge and skills aligned with the standards and priorities set by the ASE (Automotive Service Excellence) Education Foundation.

Students will gain knowledge and skills through a combination of theoretical study and hands-on lab work, including brake systems, engine performance diagnosis, suspension and steering, electronic control systems, and on-board computerized engine control systems diagnosis on automobiles and light trucks.

This program is the first step in preparing an individual for a career in the technical repair field. Over the course of the program, students will work on skills to help them obtain their New York State Inspection License post-graduation. They will also be provided with internship experiences to apply and improve their knowledge and skills. Students can earn a Career and Technical Endorsement on their diplomas by successfully passing a written and performance-based assessments.

Students also have the opportunity to participate in the industry-standard ASE technical assessments for Maintenance and Light Repair (MLR), as well as optional ASE assessments for additional certifications.

[NYSED CTE Program Requirements](#)

Automotive Technology

Institute of Technology at Syracuse Central High School (ITC) CTE Pathway

The Career Field: Working on today's high-tech cars requires technicians with an understanding of science and technology in order to repair them. The number of vehicles in use in the U.S. is expected to continue to rise and technicians will be needed to perform basic maintenance and repair to keep them running. There is a shortage of qualified automotive technicians today, and research shows this trend will continue. Skilled auto technicians will find job security and excellent pay far into the future.



The Program: Students spend time in the classroom and then apply what they've learned on real cars in our state-of-the-art facilities. Training includes diagnosis and repair of all automotive systems using modern tools and diagnostic equipment, with an emphasis on:

- » Engine management systems
- » Driveability
- » Drivetrain systems
- » Chassis
- » Maintenance



Curriculum

- Level 100 – Level 400
 - Integrated credit in ELA and Math
 - Embedded Career and Financial Management
- NYSED Curriculum Requirements
- NYSED Overview of Integrated and Specialized Academic Credits
- NYSED Career and Financial Management Framework



Program Data








Automotive Technology Program Data			
Coursework	Technical Assessment		Technical Endorsement
How many students have completed the coursework for this program of study since it was last approved or re-approved? Please indicate totals by program year.	Of the total number of students who have completed the coursework, how many students completed the technical assessment used in this program?	Of the total number of students who have completed the technical assessment, how many passed?	How many students received a technical endorsement?
2018-2019 0	2018-2019 0	2018-2019 0	2018-2019 0
2019-2020 11	2019-2020 11	2019-2020 5	2019-2020 7
2020-2021 15	2020-2021 n/a	2020-2021 2	2020-2021 8
2021-2022 13	2021-2022 13	2021-2022 10	2021-2022 8
Cumulative Total 39	Cumulative Total 24	Cumulative Total 17	Cumulative Total 23
Of the total number of students who have completed the coursework for this program of study, how many had IEPs?	Of the total number of students who have completed the coursework and completed the technical assessment, how many had IEPs?	Of the total number of students with IEPs who completed the technical assessment, how many passed?	Of those students who received the technical endorsement, how many had IEPs?
2018-2019 0	2018-2019 n/a	2018-2019 n/a	2018-2019 n/a
2019-2020 1	2019-2020 n/a	2019-2020 n/a	2019-2020 n/a
2020-2021 3	2020-2021 n/a	2020-2021 n/a	2020-2021 n/a
2021-2022 3	2021-2022 3	2021-2022 2	2021-2022 2
Cumulative Total 7	Cumulative Total 3	Cumulative Total 2	Cumulative Total 2
Of the total number of students who have completed the coursework for this program of study, how many had Section 504 plans?	Of the total number of students who have completed the coursework and completed the technical assessment, how many had Section 504 plans?	Of the total number of students with Section 504 plans who completed the technical assessment, how many passed?	Of those students who received the technical endorsement, how many had section 504 plans?
2018-2019 n/a	2018-2019 n/a	2018-2019 n/a	2018-2019 n/a
2019-2020 n/a	2019-2020 n/a	2019-2020 n/a	2019-2020 n/a
2020-2021 n/a	2020-2021 n/a	2020-2021 n/a	2020-2021 n/a
2021-2022 n/a	2021-2022 n/a	2021-2022 n/a	2021-2022 n/a
Cumulative Total n/a	Cumulative Total n/a	Cumulative Total n/a	Cumulative Total n/a



Career Outlook



U.S. BUREAU OF LABOR STATISTICS

Quick Facts: Automotive Service Technicians and Mechanics	
2021 Median Pay 	\$46,880 per year \$22.54 per hour
Typical Entry-Level Education 	Postsecondary nondegree award
Work Experience in a Related Occupation 	None
On-the-job Training 	Short-term on-the-job training
Number of Jobs, 2021 	733,200
Job Outlook, 2021-31 	1% (Little or no change)
Employment Change, 2021-31 	10,600

[Automotive Service Technicians and Mechanics Occupational Employment and Statistics NYS](#)

[Automotive Service Technicians and Mechanics Occupational Employment and Statistics Local](#)



Certifications

Automotive Technology Teacher: Erika Schell

Search Results

Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	RHIANNON	WHITE	M	LIVERPOOL	NY	Expired
<input type="radio"/>	RHIANNON	WHITE	M	FAIRPORT	NY	Registered Inactive

[View Detail](#)

Certificate Information for New York State Teaching Certificate Holder

Certificate Title	Issue / Effective Date	Expiration Date	Status
English 7-12 Permanent Certificate	02/01/2007		Issued
English 7-12 Provisional Certificate	02/01/2002	01/31/2007	Expired

Certified by the State of New York solely for purposes of employment by the City School District of the City of New York and the operation of the School District.

Search Results

Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	IAN	LANE	E	SYRACUSE	NY	Registered Active
<input type="radio"/>	IAN	LANE	A	HURLEY	NY	N/A

[View Detail](#)

Certificate Information for New York State Teaching Certificate Holder

Certificate Title	Issue / Effective Date	Expiration Date	Status
Mathematics 7-12 Initial Certificate	09/01/2007	08/31/2012	Expired
Mathematics 7-12 Professional Certificate	09/01/2012		Issued

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Search Results

Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	SCOTT	LANE	T	CANASTOTA	NY	Registered Active

[View Detail](#)

Certificate Information for New York State Teaching Certificate Holder

Certificate Title	Issue / Effective Date	Expiration Date	Status
Teaching Assistant Continuing Certificate	09/01/2002		Issued
Students With Disabilities - Grades 7-12 - Social Studies Initial Certificate	09/06/2014	08/31/2019	Expired
Social Studies 7-12 Initial Certificate	09/01/2010	08/31/2018	Expired
Students With Disabilities - Grades 7-12 - Social Studies Professional Certificate	01/09/2019		Issued
Social Studies 7-12 Professional Certificate	09/07/2018		Issued
Coordinator of Work-Based Learning Programs for Career Awareness Extension Professional Ext/Anno	11/05/2022		Issued

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Search Results

Select	First Name	Last Name	MI	City	State	Registration Status
<input checked="" type="radio"/>	NICHOLAS	LISI		SYRACUSE	NY	Registered Active

[View Detail](#)

Certificate Information for New York State Teaching Certificate Holder

Certificate Title	Issue / Effective Date	Expiration Date	Status
Media Communications 7-12 Initial Certificate	09/01/2011	08/31/2016	Expired
Coordinator of Work-Based Learning Programs for Career Development Extension Initial Extension Annotation	12/19/2013	08/31/2016	Expired
Media Communications 7-12 Professional Certificate	03/17/2016		Issued
Coordinator of Work-Based Learning Programs for Career Development Extension Professional Ext/Anno	03/17/2016		Issued

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Technical Assessment

Precision Exam: Automotive Service Fundamentals #505

SCSD Career Portfolio

Career Portfolio Rubric

NYSED Technical Assessment Requirements

NYSED Technical Endorsement Requirements

PRECISION EXAMS by <small>you</small> science																					
Automotive Service Fundamentals																					
EXAM INFORMATION	DESCRIPTION																				
Exam Number 505	This is an entry-level course in Automotive Service. Through demonstrations, lectures, research, and practical projects, this course introduces students to a broad experience in the use of shop equipment, tools, materials, processes, and techniques of automotive service. This is a one-semester course of instruction.																				
Items 55																					
Points 66																					
Prerequisites None																					
Recommended Course Length ONE SEMESTER																					
National Career Cluster TRANSPORTATION, DISTRIBUTION, & LOGISTICS	EXAM BLUEPRINT																				
Performance Standards Included (Optional) Certificate Available Yes																					
	<table border="1"><thead><tr><th>STANDARD</th><th>PERCENTAGE OF EXAM</th></tr></thead><tbody><tr><td>1. Leadership Development</td><td>5%</td></tr><tr><td>2. Work-Based Readiness</td><td>2%</td></tr><tr><td>3. General Shop Safety</td><td>11%</td></tr><tr><td>4. Hand Tools, Fasteners, and Shop Equipment</td><td>11%</td></tr><tr><td>5. Tire and Wheel Removal and Installment</td><td>7%</td></tr><tr><td>6. Basic Automotive Parts and Services</td><td>51%</td></tr><tr><td>7. Basic Emission Components (Optional)</td><td>0%</td></tr><tr><td>8. Automotive Mathematical Equations</td><td>13%</td></tr><tr><td>9. Vehicle Inspection</td><td>0%</td></tr></tbody></table>	STANDARD	PERCENTAGE OF EXAM	1. Leadership Development	5%	2. Work-Based Readiness	2%	3. General Shop Safety	11%	4. Hand Tools, Fasteners, and Shop Equipment	11%	5. Tire and Wheel Removal and Installment	7%	6. Basic Automotive Parts and Services	51%	7. Basic Emission Components (Optional)	0%	8. Automotive Mathematical Equations	13%	9. Vehicle Inspection	0%
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9. Vehicle Inspection	0%																				
www.youscience.com	Automotive Service Fundamentals 505.2022																				



Work-based Learning

SCSD Work-based Learning

Students will be connected with automotive technology professionals in the community through Career Coaching, field trips and job shadowing which could lead to further opportunities for direct job training and real-world experience. Students will create and maintain a portfolio of their work-based learning experiences throughout the program to document the development of their skills.

Syracuse City Schools Work-based Learning Handbook

NYSED Work-based Learning Requirements



Employability Profiles

Employability Profiles:

- Industry Based Skill Standards
- Career Development Standards

NYSED Employability Profile Requirements

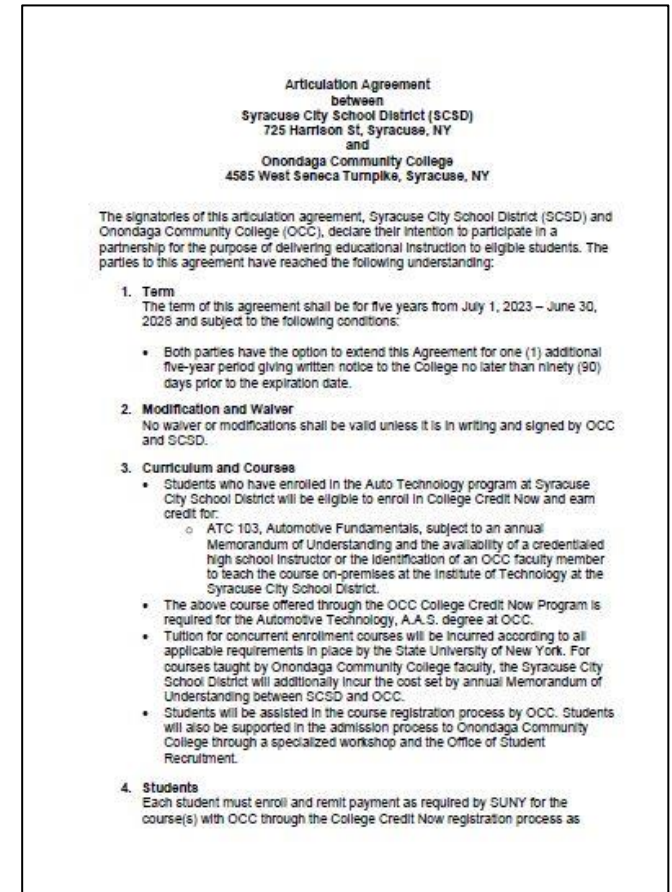
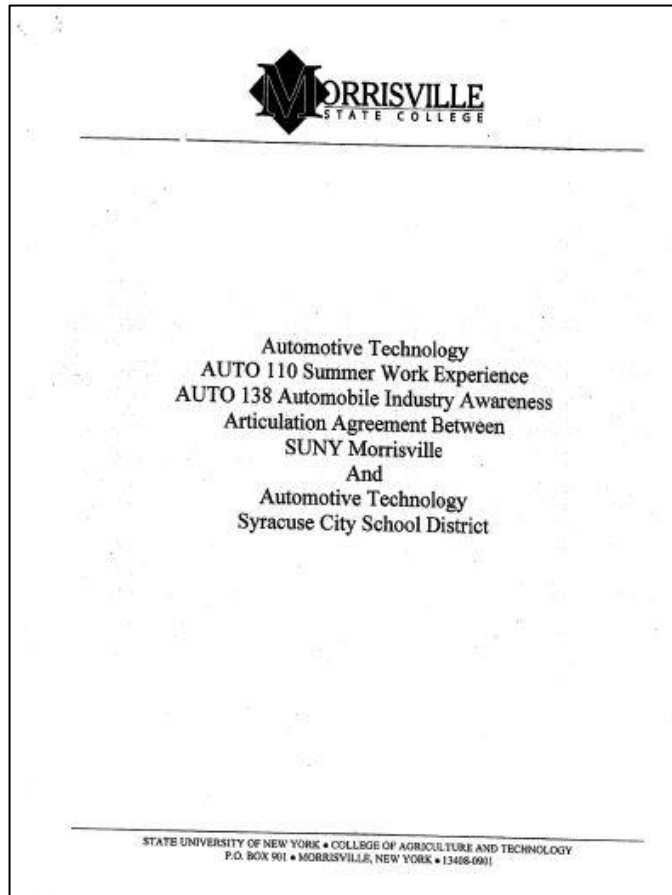
Advisory Council Members

- Steve Finch, Todd Ingraham, Abby Woestendiek, AAA
- John Boronczyk, John's Auto Care
- Matt Bell, Drivers Village
- Ron Alexander , SUNY Morrisville
- John J. Keehfus, K & C Auto
- Heather Schmidtka, Barrett Paving
- Kara Abelgore, Thompson and Johnson
- Richard E. DeVesty, Director of Fleet Operations City of Syracuse
- Jim Begay and Curt Lawson, Byrne Daily
- Ryan Beckley, Onondaga Community College OCC
- Nizair Evans, Milton CAT
- Jessica McCarthy, Syracuse Label & Surround Printing
- Allan Nolan, NAPA
- Anthony LaMacchia, Lamacchia Honda



Post-Secondary Articulation Agreement

Our Automotive Technology program has articulation agreements with Onondaga Community College and SUNY Morrisville

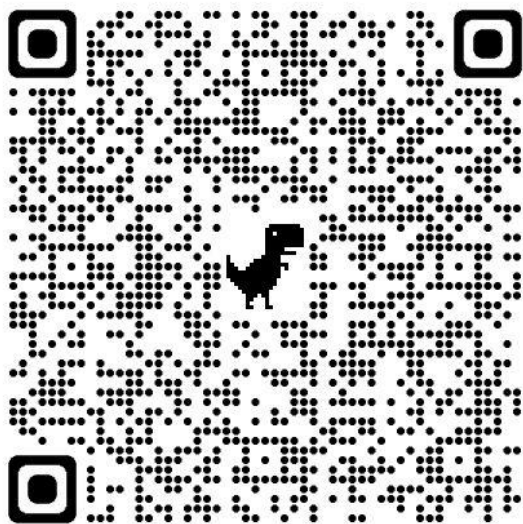


NYSED Post-Secondary Articulation Agreement Requirements



Thank you!!!

It is important to provide your thoughts in the Self Study report. Please access the QR code or click on the graphic below to record your comments. We will also email you the link.



We appreciate your time and support of our programs and look forward to your feedback.

