

AUTOMOTIVE TECHNOLOGY PROGRAM INFORMATION



TYPE OF WORK

The work of automotive service technicians and mechanics has evolved from mechanical repair to a high technology job. Today, integrated electronic systems and complex computers run vehicles and measure their performance while on the road. Technicians must have an increasingly broad base of knowledge about how vehicles' complex components work and interact, as well as the ability to work with electronic diagnostic equipment and computer-based technical reference materials.

Automotive service technicians and mechanics use their high-tech skills to inspect, maintain, and repair automobiles and light trucks. The increasing sophistication of automotive technology now requires workers who can use computerized shop equipment and work with electronic components while maintaining their skills with traditional hand tools. Technicians may have to test drive the vehicle or use a variety of testing equipment, such as onboard and hand-held diagnostic computers or compression gauges, to identify the source of the problem. These tests may indicate whether a component is salvageable or whether a new one is required to get the vehicle back in working order.

Automotive technology is rapidly increasing in sophistication, and most training authorities strongly recommend that persons seeking automotive service technician and mechanic jobs complete a formal training program in high school or in a postsecondary vocational school.

JOB OUTLOOK

Job opportunities in this occupation are expected to be very good for persons who complete automotive training programs in high school, vocational and technical schools, or community colleges as employers report difficulty in finding workers with the right skills. Persons with good diagnostic and problem-solving abilities, and whose training includes basic electronics and computer courses, should have the best opportunities. For well-prepared people with a technical background, automotive service technician careers offer an excellent opportunity for good pay and the satisfaction of highly skilled work with vehicles incorporating the latest in advanced technology. However, persons without formal automotive training are likely to face competition for entry-level jobs.

Employment of automotive service technicians and mechanics is expected to increase as fast as the average through the year 2014. Over the 2004-14 period, demand for technicians will grow as the number of vehicles in operation increases, reflecting continued growth in the number of multi-car families. Growth in demand will be offset somewhat by slowing population growth and the continuing increase in the quality and durability of automobiles, which will require less frequent service. Additional job openings will be due to the need to replace a growing number of retiring technicians, who tend to be the most experienced workers.

Most persons who enter the occupation can expect steady work, even through downturns in the economy. While car owners may postpone maintenance and repair on their vehicles when their budgets become strained, and employers of automotive technicians may cutback hiring new workers, changes in economic conditions generally have minor effects on the automotive service and repair business.

Employment growth will continue to be concentrated in automobile dealerships and independent automotive repair shops. Many new jobs also will be created in small retail operations that offer after-warranty repairs, such as oil changes, brake repair, air-conditioner service, and other minor repairs generally taking less than 4 hours to complete. Employment of automotive service technicians and mechanics in gasoline service stations will continue to decline, as fewer stations offer repair services.

For more details from the Department of Labor about automotive technicians, please refer to their website at www.bls.gov/oco/ocos181.htm.

PROGRAM INFORMATION

ADMISSION PROCEDURES

CONDITIONS OF ADMISSION

MCC Application

Please follow the MCC Admissions procedures listed on the inside cover of the MCC Admissions Application. Items necessary include high school/college transcripts, health records, and the ACCUPLACER placement exams. For ACCUPLACER information, call 585-292-2290. Students who are GED recipients must send their high school records as well as their GED score report. To obtain an application, call 585-292-2200 or visit www.monroecc.edu.

Automotive Information Session

All prospective automotive students must attend a departmental information meeting. These meetings include an overview of the admissions and financial aid process, an outline of the requirements for all automotive programs, and a tour of the automotive facilities. The Admissions Office will send a list of dates and times the sessions are offered, and you may also check the MCC Website (www.monroecc.edu).

Affidavit for Automotive Technology

Once a student's application has been processed, an Affidavit for Automotive Technology will be mailed to the applicant. The Affidavit requires notarization stating the number of points on your NYS Driver's License.

If you are uncertain of how many points have been accumulated on your NYS Driver's License, please contact the NYS Department of Motor Vehicles to order a Driver Abstract of your driving record so you will have this information readily available to hand in your affidavit.

Co-op/Work Experience Requirements

Each MCC Automotive Technology student is required to be employed in the automotive industry as an automotive service technician. It is the prospective student's responsibility to locate his/her own place of employment. It is important to note that typically a valid driver's license as well as a full background check is necessary to gain employment as an automotive service technician.

Please note that for students interested in GM ASEP or Toyota/Scion/Lexus T-TEN identification of a sponsoring dealership is a part of the acceptance process. More information on this will be given at the departmental information meeting.

PROGRAM INFORMATION

GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATIONAL PROGRAM (GM ASEP)

GENERAL INFORMATION

The General Motors Automotive Service Education Program (GM ASEP) is an Associate Degree program designed to upgrade the technical competence and professional level of the incoming dealership technician. Monroe Community College is offering this program to students in the western and southern regions of New York State (Rochester, Syracuse, Buffalo, Ithaca, Corning, Binghamton).

This is a two-year program. Your time will be equally split between MCC and a GM dealership. Each automotive topic area is dealt with in the classroom and laboratory and is followed by related work experience in the dealership.

For admission into the program it is required for the student to have a sponsoring General Motors dealership, as a substantial portion of the program is spent at the dealership. The main responsibility of the dealership is to provide paid employment for the student during all of the work experience periods. The student may work part time at the dealership while attending classes, but this is not generally recommended due to the concentrated level of study.

Graduates Receive

- Associate in Applied Science Degree in Automotive Technology
- Cooperative work experience in a GM dealership
- Instruction on the latest automotive technology
- The background to become ASE (Automotive Service Excellence) certified
- The opportunity to obtain a New York State Inspection License
- The opportunity to become EPA Refrigerant Recycling certified
- GM Manufacturer Certificate

RESPONSIBILITIES

Monroe Community College

- Provide instruction in accordance with the approved curriculum
- Provide academic advisement
- Assist dealers with student selection for program
- Assist dealership coordinators when planning learning experiences at the sponsoring dealership
- Keep sponsoring dealership informed of student's academic progress
- Assist students in their dealership relations
- Maintain all student records
- Furnish program information when requested

Prospective Student

- Locate dealership sponsor
- Maintain academic standards, minimum 2.0 GPA
- Maintain valid drivers license
- Participate in all learning activities at the scheduled times
- Provide sponsoring dealer with responsible and productive employment
- Be responsible for program costs: tuition, fees, books, tools, housing, etc.
- Pursue degree – become a career service technician with the sponsoring dealer
- Wear dealer provided work uniforms in all GM ASEP classes and dealer work activities

PROGRAM INFORMATION

General Motors Corporation

- Provide product-specific training to involved MCC instructors
- Furnish MCC with vehicles and components for training
- Ensure MCC complies with training standard requirements so graduates receive GM credit
- Oversee and participate in student selection procedures
- Monitor all phases of program to assure success
- Assist with student recruitment
- Provide MCC with essential training materials
- Issue appropriate GM course credit upon graduation

Advisory Committee

- Understand that you are automatically a member of the GM ASEP Advisory Committee and expected to serve in a committed manner to ensure the program remains current with the needs of your business. This commitment is for 2 meetings per year lasting 2 hours each.
- Understand that the GM ASEP program exists solely for the benefit of the General Motor's dealers and therefore belongs to them. It is in your best interest to be an active participant in the program so it can continue to meet your needs.

General Motors Dealer/Fleet or ACDelco

- Help recruit students
- Monitor and advise MCC on all phases of the program to assure success
- Advise the College, your area vehicle manager or a General Motors Training Center of interest in being a sponsoring dealer so your name can be made available to prospective students for interview and selection
- Interview and select prospective student(s). Furnish student application forms on request (available from Monroe Community College Applied Technologies Department)
- Agree to provide dealership co-op work experience. While assigned to the dealership, this experience must reinforce the trainee's most recent College subject matter.
- Advise dealer principal, as well as other dealership personnel, of this agreement. If you leave, make sure your replacement is advised of this agreement.
- Appoint an in-dealership coordinator to help develop trainee to full productivity level and to work with Monroe Community College's GM ASEP coordinators.
- Agree to pay the trainee hourly (not flat rate) during periods of dealership coordinated work experience. Students with previous vocational education should receive an additional dollar per hour.
- Provide GM ASEP employee with work uniforms in a manner consistent with other dealership employees
- Understand that you are automatically a member of the GM ASEP Advisory Committee and expected to serve in a committed manner to ensure the program remains current with the needs of your business. This commitment is for 2 meetings per year lasting 2 hours each.
- Understand that the GM ASEP program exists solely for the benefit of the General Motor's dealers and therefore belongs to them. It is in your best interest to be an active participant in the program so it can continue to meet your needs.
- Inform the College when equipment, vehicles, components and special tools are available for donation

PROGRAM INFORMATION

TOYOTA/SCION/LEXUS TOYOTA TECHNICAL EDUCATION NETWORK(T-TEN)

GENERAL INFORMATION

The Toyota/Scion/Lexus Technical Education Network (T-TEN) is an Associate of Applied Science Degree program delivered in conjunction with MCC designed to upgrade the technical competence and professional level of the incoming dealership technician. Monroe Community College is offering this program to students in New York State.

This is a two year program, of which a significant portion is spent at Monroe Community College and at least 640 hours in a Toyota or Lexus dealership. Each specialized subject is dealt with in the classroom and laboratory and is followed by related work experience in the dealership. Typically this rotation system continues across four semesters.

The student is required to have a sponsoring Toyota or Lexus dealership. The main responsibility of the dealership is to provide paid employment for the student during all of the cooperative work experience periods. The student may work part-time at the dealership while attending classes, but this is not generally recommended due to the concentrated level of study.

Tuition, fees, textbook and tool costs are the responsibility of the student. Students may select any brand of tools and it is possible to obtain an educational discount. Financial aid is available to eligible students. Allow at least six weeks for the financial aid process. Tuition is based on current tuition rates and may be subject to change.

Graduates Receive

- Associate of Applied Science Degree in Automotive Technology
- Cooperative work experience in a Toyota or Lexus dealership
- Instruction on the latest automotive technology
- The background to become ASE (Automotive Service Excellence) certified
- The opportunity to obtain New York State Inspection License
- The opportunity to become EPA Refrigerant Recycling certified
- Toyota graduates receive credit for ten Toyota courses and five Lexus courses through the manufacturer

PROGRAM INFORMATION

FREQUENTLY ASKED QUESTIONS

What is the General Motors Automotive Service Education Program (GM ASEP) and the Toyota/Scion/Lexus T-TEN program?

- These are separate 2-year college programs sponsored by GM and Toyota/Scion/Lexus. Completion of the either program leads to an Associate in Applied Science Degree in Automotive Technology as well as technician certification from the manufacturer.
- The programs are a joint effort of the following organizations: Monroe Community College, General Motors Corporation, Toyota/Scion/Lexus Corporation and local Automotive Dealers.

What is the purpose of these programs?

- To upgrade the technical competency and professional level of the incoming General Motors and Toyota/Scion/Lexus dealership service technicians.
- To train students to analytically diagnose, service and maintain GM or Toyota/Scion/Lexus automotive products using recommended procedures, appropriate tools and applicable service publications.
- To provide course content that will enable the successful graduate to advance in position after additional experience and to understand new systems and components as they are introduced.

How does it work?

- The curriculum utilizes four eleven-week semesters of classroom work alternating with periods of work experience at a General Motors or Toyota/Scion/Lexus dealership.

What is the purpose of the cooperative education work experience periods at the dealership?

- This system allows the student to apply, in a real world setting, what he or she has learned during the previous classroom session.
- In addition, the student becomes familiar with the dealership environment, its organization structure, and the competencies that are expected of a professional automotive technician.
- Since students earn while learning, there is an opportunity to cover some of the expenses involved.

What subjects are studied across the Automotive curriculum?

- Technical training includes the latest development in engine repair, automotive electrical and electronic engine control systems, brakes, steering and suspension, heating and cooling systems, automatic and manual transmissions, fuel systems and emission control systems.
- In addition to the technical curriculum, courses are required in areas such as Technical Mathematics, Physics, English and Liberal Arts Electives to provide students with the background necessary for effective communication of ideas and to enhance future opportunities for career advancement.

FULLTIME DAY CO-OP PROGRAM

GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATION PROGRAM

Fall Semester

Course Number	Course Description	Credit Hours
ATP 101	Introduction to Automotive Tech	5
ATP 102	Electrical/Electronic Systems	3
ATP 105	Brakes & Welding	4.5
ATP 141	Automotive Technology Co-op I	2
ENG 101	Basic College Writing	3
HED 114	Health/Safety in the Workplace	2
	Total	19.5

Spring Semester

Course Number	Course Description	Credit Hours
ATP 103	Electrical 2 – Automotive	4
ATP 108	Engine Repair - Automotive	4
ATP 142	Automotive Technology Co-op II	2
MTH 135	Intro to Technical Math (Auto)	4
PHY 100	Preparatory Physics	4
	Total	18

Summer Semester

Course Number	Course Description	Credit Hours
ATP 143	Automotive Technology Co-op III	3
	Total	3

Fall Semester

Course Number	Course Description	Credit Hours
ATP 107	Automatic Transmissions and Transaxle	4
ATP 109	Heating and Air Conditioning	3
ATP 144	Automotive Technology Co-op IV	2
ECO 103	Personal Money Management	3
SPT 141	Interpersonal Speech Comm - WR	3
	Total	15

Spring Semester

Course Number	Course Description	Credit Hours
ATP 106	Steering and Suspension - Automotive	5
ATP 112	Engine Performance - Automotive	4
ATP 112	Automotive Technology Co-op V	2
MUS 150	History of Rock 'n Roll	3
	Total	14

Total credits 69.5

FULLTIME DAY CO-OP PROGRAM

TOYOTA/SCION/LEXUS T-TEN PROGRAM

Fall Semester

Course Number	Course Description	Credit Hours
ATP 101	Integrated Automotive Systems	5
ATP 105	Brakes & Welding	4.5
SPT 141	Interpersonal Communication	3
ENG 101	Basic College Writing	3
Total		15.5

Spring Semester

Course Number	Course Description	Credit Hours
ATP 102	Automotive Electrical Systems	3
ATP 106	Steering & Suspension	5
ATP140	Co-op Seminar	1
MTH 135	Into to Technical Math	4
PHY 100	Introductory Physics	4
Total		17

Summer Semester

Course Number	Course Description	Credit Hours
ATP 143	Co-op Work Experience	3
Total		3

Fall Semester

Course Number	Course Description	Credit Hours
ATP 103	Schematic Reading	4
ATP 104	Emission Controls, Computer & Fuel Sys. I	3
ATP108	Engine Repair	4
ECO 103	Personal Money Management	3
HED 114	Health & Workplace Safety	2
Total		16

Spring Semester

Course Number	Course Description	Credit Hours
ATP 107	Automatic Transmissions	4
ATP 109	Heating & Air conditioning	3
ATP 112	Emission Controls, Computer & Fuel Sys. II	4
ATP 145	Co-op work experience	2
LA Elective	Liberal Arts	3
Total		16

Total credits 67.5

PROGRAM INFORMATION

APPRENTICE TRAINING A.A.S. DEGREE & CERTIFICATE IN AUTOMOTIVE TECHNOLOGY

RESPONSIBILITIES

Monroe Community College

- Provide instruction in accordance with the approved curriculum
- Provide academic advisement
- Maintain all student records
- Furnish program information when requested
- Assist students in their dealership/garage relations

Prospective Student

- Maintain academic standards
- Participate in all learning activities at the scheduled times
- Be responsible for program costs: tuition, fees, books, tools, housing, etc.
- Maintain a clean and valid NY State Driver's License
- Be employed as an automotive service technician
- Wear safety glasses and proper work clothes to all labs
- Discuss with the program coordinator any student concerns
- Pursue degree – become a career service technician

Employer

- Identify interest in being a sponsoring employer so employer name can be made available to interested students
- Interview and select prospective students
- Agree to provide apprentice work experience. This experience should supplement the apprentice's most recent MCC instruction
- Advise Monroe Community College coordinator of any student deficiencies on the monthly report
- Provide the new student employee with work uniforms in a manner consistent with other employees.

DETAILS

ESTIMATED COSTS

SEMESTER	BOOKS	TUITION/FEES	SUBTOTAL	
1	\$300.00	\$1,491.25	\$1,791.25	
2	\$300.00	\$1,491.25	\$1,791.25	
			Approximate Total	\$3,582.50

Approximate total breakdown of tuition and fees per semester:

Tuition	\$1,300.00	
Student Activity Fee	\$ 88.25	
Lab/Service Fee	\$ 60.00	
Health Fee	\$ 5.00	
Insurance Fee	\$ 3.00	
Red Cross Fee	\$ 5.00	
Parking Fee	\$ 30.00	
Total		\$1,491.25

TOOLS

The Automotive Department works with many tool manufacturers and offers significant student discounts. Please note that students in MCC's Automotive program utilize their personal tools in the classroom and in their place of employment. Necessary tools are contingent upon the specific automotive program a student enters and lists will be made available after acceptance. By the time the student has completed one of the automotive programs they will own tools that total approximately \$1,700 – 2,300.

The fees noted above are based on the 2005 – 2006 school year and are subject to change yearly and do not include other minor charges.

Note: For out-of-county students: In-county rate will be charged for New York State residents when the student secures out-of-county charge-back authorization from the home community college or county treasurer by filling out a Certificate of Residence Form.

Other Cost Considerations

Room and Board (MCC Residence Halls Available)

Mileage Costs

Miscellaneous Costs

Note: Students may request financial aid information by supplying your name and address to:

Financial Aid Office

Monroe Community College

1000 East Henrietta Road

Rochester, NY 14623

Or Call: 585-292-2050

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