



Automotive Maintenance Technician

Program No: 31-404-3

Technical Diploma

Degree Completion Time: Four Terms

In general, an academic year consists of two terms; however, degree completion time may vary based on student scheduling needs and class availability.

2012-2013

Catalog No.	Class Title	Credit(s)
Term 1		
31404301	Auto Orientation & Safety	1.00
31442345	Auto Servicing Welding	1.00
31404370	Auto Brakes	3.00
31404372	Auto Suspension and Steering	3.00
31404376	Auto Engine Repair	4.00
	Total	12.00
Term 2		
31404348	Automotive Air Conditioning and Certification	3.00
31404315	Automatic Transmissions	4.00
31404316	Differential & Manual Transmissions	3.00
31809362	Psychology for Life	1.00
31809363	Challenging Issues	1.00
	Total	12.00
Term 3		
31404317	Auto Electricity I	2.00
31404318	Auto Electricity II	2.00
31404319	Auto Electricity III	2.00
31404320	Auto Electricity IV	3.00
31801359	Communication Skills for the Workplace	2.00
	Total	11.00
Term 4		
31404382	Auto Engine Performance I	5.00
31404384	Auto Engine Performance II	5.00
	Total	10.00
	Program Total	45.00
Note:	Program start dates vary; check with your counselor for details.	
	Curriculum and program acceptance requirements are subject to change.	

About the Career

Most of us place great value on owning and operating our own vehicles. Our independence stems from our ability to jump in our cars and trucks and go wherever we want, whenever we want. When our independence is threatened because our vehicles aren't working properly, the first person we seek is a qualified automotive maintenance technician. If you're mechanically talented, like to solve problems, and enjoy working with people, success in the automotive maintenance field may be just down the road for you.

Careers

- Automotive Technician
- Auto Service Advisor
- Light Truck Technician

Admissions Steps

- Application
- Application Fee
- Entrance Assessment Scores
- Transcripts
- Program Advising Session
- Functional Abilities Statement of Understanding Form

Program Outcomes

You'll learn to:

- Use information software for diagnosing and repairing of vehicles.
- Demonstrate the use of safe work practices in all aspects of vehicle repair.
- Develop technical competency in all eight areas of ASE certification including:
 - Perform engine repair.
 - Perform automatic transmission and transaxle repair.
 - Perform manual drive train and axle repair.
 - Perform suspension and steering repair.
 - Perform brake system repair.
 - Perform electrical and electronic system repair.
 - Perform heating and air conditioning repair.
 - Improve engine performance.
- Address customers in a professional manner.
- Utilize proper customer service techniques when creating and closing repair orders, ordering parts, and contacting customers.

Other Program Expectations

You'll need to:

- Drive manual transmission.
- Have a valid driver's license.

Approximate Costs

- \$126 per credit (resident)
- \$182 per credit (out-of-state resident)
- Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.)

Certification

Certified by NATEF (National Automotive Technicians Education Foundation).

Special Note

Students are required to purchase specific Snap-On tools. Tool cost average \$5,000 as you progress through the program.

Functional Abilities

Functional abilities are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified. Please see program website for specific functional abilities

Entrance Assessment Scores

Accuplacer	ACT
Arithmetic - 79	Mathematics - 18
Reading - 55	Reading - 18
Sentence Skills - 60	English - 18

31404301 Auto Orientation and Safety

...prepares the learner to work effectively and efficiently in the automotive lab. Shop safety and proper procedures are emphasized.

CONDITION: Automotive Maintenance Technician

31404315 Automatic Transmission

...prepares the learner to develop skills in the operation and servicing of automatic transmissions. The learner will disassemble, inspect, repair and reassemble various automatic transmissions and learn proper procedures for diagnosis of these assemblies.

COREQUISITE: 31404301 Auto Orientation & Safety

31404316 Differentials and Manual Transmissions

...prepares the learner with a thorough knowledge of the operation, diagnosis, and repair procedures of differential assemblies and manual transmissions. The learner will disassemble, inspect and reassemble differentials and various manual transmissions.

COREQUISITE: 31404301 Auto Orientation & Safety

31404317 Auto Electricity I

...introduces the learner to the properties, characteristics, and behaviors of electricity and electromagnetism. Learners will learn how to quantify electricity using a digital volt ohm meter.

COREQUISITE: 31404301 Auto Orientation & Safety

31404318 Auto Electricity II

...prepares the learner to interpret automotive wiring diagrams and troubleshoot electrical circuits. Learners will identify and describe components and functions of automotive circuits and troubleshoot them using a 7-step process.

COREQUISITE: 31404317 Auto Electricity I

31404319 Auto Electricity III

...prepares the learner to diagnose and repair automotive starting and charging systems, lighting systems, conductors, connectors, and motors. Learners will test starters, alternators, solenoids and cables.

COREQUISITE: 31404318 Auto Electricity II

31404320 Auto Electricity IV

...prepares the learner to diagnose and repair microprocessor controlled circuits in different automotive systems including safety, security and convenience systems.

COREQUISITE: 31404319 Auto Electricity III

31404348 Automotive Air Conditioning and Certification

...provides the student with a thorough knowledge of the operation, diagnosis, and repair procedures of the heating and air-conditioning systems used by domestic and import automotive manufacturers, including service procedures and testing, repair, or replacement of air-conditioning components. Wisconsin Ag 136 Refrigerant Recycling certification is included.

COREQUISITE: 31404301 Auto Orientation & Safety

31404370 Auto Brakes

...prepares the student with the theory of mechanical and hydraulic components of domestic and many imported automotive braking systems, including antilock braking systems and traction controls; servicing techniques of new systems and procedures; and basic braking systems with hands on application.

COREQUISITE: 31404301 Auto Orientation & Safety

31404372 Auto Suspension and Steering

...prepares the student to perform testing and replacement procedures of suspension components; front and four-wheel alignment procedures for automotive and light trucks; and service procedures, including power steering diagnosis and repair.

COREQUISITE: 31404301 Auto Orientation & Safety

31404376 Auto Engine Repair

...prepares the student for engine reconditioning and related component repair procedures, engine rebuilding and cooling and lubrication systems, and service procedures.

COREQUISITE: 31404301 Auto Orientation & Safety

31404382 Auto Engine Performance I

...prepares the student to diagnose and repair ignition systems, fuel delivery systems, and engines that crank but do not start using specialized test equipment.

PREREQUISITE: 31404320 Auto Electrical Systems and 31404319 Auto Basic Electrical or 31404380 Auto Electrical Systems I

31404384 Auto Engine Performance II

...prepares the student to diagnose and repair driveability concerns, emission test failures, and check engine lights using engine diagnostic equipment.

COREQUISITE: 31404382 Auto Engine Performance I

31442345 Auto Servicing Welding

...prepares the student to make repairs commonly practiced in the auto industry, including safe techniques of brazing, cutting, SMAW, and GMAW.

COREQUISITE: 31404301 Auto Orientation & Safety

31801359 Communication Skills for the Workplace

...prepares the student to develop paper job-search tools and job-related writing skills to increase job stability; introduces the students to team-building skills to resolve organizational problems; introduces the student to the skills of effective listening; prepares the student to respond to workplace criticism and praise; and introduces the student to interpersonal relationship skills, including effective interviewing skills, customer relations, and management/employee relations.

31809362 Psychology for Life

...prepares the learner to select behavior modification techniques, demonstrate techniques for enhancing memory, analyze expressions of emotion, use conflict for common good, employ techniques to reduce conflict/frustration, use several methods to reduce stress, interpret personality types, ascertain contributors to perception, and apply methods of problem-solving.

31809363 Challenging Issues

...prepares the learner to understand the challenging occupational and social issues and problems that shape the direction of today's work world and become aware of what those contemporary issues are, how the issues impact the student, and how the student can make changes when necessary.