

## Program Number 31-404-3 Technical Diploma • Four Terms

### ABOUT THE PROGRAM

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.

### PROGRAM OUTCOMES

- 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:
  - Engine repair.
  - Automatic transmission and transaxle repair.
  - Manual drive train and axle repair.
  - Suspension and steering repair.
  - Brake system repair.
  - Electrical and electronic system repair.
  - Heating and air conditioning repair.
  - Engine performance.
- Address customers in a professional manner.
- Utilize proper customer service techniques when creating and closing repair orders, ordering parts, and contacting customers.

### ADMISSIONS STEPS

- Work with Admissions Specialist to:
  - Submit application and \$30 fee.
  - Complete an assessment for placement (Accuplacer or ACT).
  - Submit official transcripts (high school and other colleges).
- Meet with program advisor/counselor to discuss program details.

### APPROXIMATE COSTS

- \$132 per credit (resident)
- \$198 per credit (out-of-state resident)
- Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.) Visit [gotoltc.edu/financial-aid/tuition-and-fees](http://gotoltc.edu/financial-aid/tuition-and-fees) for details.

### PLACEMENT SCORES

Accuplacer/ACT scores will be used to develop your educational plan. Contact your program advisor/counselor for details.

### SPECIAL NOTES

Students are required to purchase specific Snap-On tools. Tool cost average \$5,000 as you progress through the program. You'll need to drive manual transmissions and have a valid driver's license. This program is certified by NATEF (National Automotive Technicians Education Foundation).

### CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit [gotoltc.edu/future-students/transfer](http://gotoltc.edu/future-students/transfer).

### CONTACT

Chou Yang, Admissions Specialist  
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Catalog No.	Class Title	Credit(s)
<b>Term 1</b>		
31404301	Auto Orientation & Safety	1
31442345	Auto Servicing Welding	1
31404370	Auto Brakes	3
31404372	Auto Suspension and Steering	3
31404376	Auto Engine Repair	4
		<b>12</b>
<b>Term 2</b>		
31404348	Automotive Air Conditioning & Certification	3
31404315	Automatic Transmissions	4
31404316	Differential & Manual Transmissions	3
31809362	Psychology for Life	1
31809363	Challenging Issues	1
		<b>12</b>
<b>Term 3</b>		
31404317	Auto Electricity 1	2
31404318	Auto Electricity 2	2
31404319	Auto Electricity 3	2
31404320	Auto Electricity 4	3
31801359	Communication Skills for the Workplace	2
		<b>11</b>
<b>Term 4</b>		
31404382	Auto Engine Performance 1	5
31404384	Auto Engine Performance 2	5
		<b>10</b>
		<b>TOTAL 45</b>

*Curriculum and Program Acceptance requirements are subject to change. Program start dates vary; check with your advisor/counselor for details.*



**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

**AUTO ELECTRICITY 1**...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

**AUTO ELECTRICITY 2**...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 1

**AUTO ELECTRICITY 3**...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 2

**AUTO ELECTRICITY 4**...prepares the learner to diagnose and repair microprocessor controlled circuits in different automotive systems including safety, security and convenience systems. COREQUISITE: 31404319 Auto Electricity 3

**AUTO ENGINE PERFORMANCE 1**...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

**AUTO ENGINE PERFORMANCE 2**...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 1

**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

**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 and Accuplacer Math minimum score of 79 or Equivalent

**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

**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

**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

**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

**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.

**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.

**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

**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.