

Toyota T-TEN

27-credit Technical Certificate

About the Certificate

The Toyota Technical Education Network (T-TEN) was developed to fill the growing need for highly professional, technically competent technicians for Toyota/Lexus dealerships. Developed as a partnership between Toyota/Lexus dealerships, students and WCTC, the program involves attending classroom lecture and labs and working at a Toyota/Lexus dealership. The nine Toyota-specific courses are taught with the same teaching materials and Toyota vehicle components that are used in Toyota Training Centers. Besides completing two semesters and a summer session, students must complete a minimum of 144 hours of worksite experience and pass two ASE certification tests to be considered a Toyota T-TEN graduate.

Students must have a sponsoring dealership to be admitted into the Toyota T-TEN program. WCTC will help identify interested dealerships for students but will not assign a specific dealership.

What is a Technical Certificate?

A WCTC technical certificate provides an excellent means for those already employed in business to cross train or to expand their knowledge through short-term training opportunities.

For more information, call 262.691.5200.

Toyota T-TEN Required Courses

- 602-110 Electrical Systems & Acc** 4
Become familiar with the fundamental theories of electricity and electronics and apply these fundamentals in the operation of the various automotive systems. Study meter usage and sound diagnostic procedures.
Prerequisites: 602-100 Automotive Fundamentals (or concurrent) or 602-121 Engine Fundamentals (or concurrent)
- 602-121 Engine Fundamentals** 2
Gain a general overview of automotive engines and operating characteristics. Learn four stroke theory, valve train components, and engine blocks and related components. Engine support systems such as lubrication systems, cooling system, ignition system, fuel and exhaust systems will also be covered. Focus on engine theory and operation, disassembly and assembly, problem diagnosis and component testing for domestic as well as import vehicles.

Required Courses

Credits

First Semester

- 602-110 Electrical Systems & Accessories 4
- 602-121 Engine Fundamentals 2
- 602-180 Electronic Accessories 2
- 602-190 Co-op Dealership Experience I 1
- Total semester credits** 9

Second Semester

- 602-143 Fuel Management I 4
- 602-150 Automotive Temperature Control 2
- 602-170 Automotive Brakes 2
- 602-191 Co-op Dealership Experience II 1
- Total semester credits** 9

Summer Semester

- 602-130 Alignment/Suspension/Steering 2
- 602-161 Transmissions/Transaxles/Drivelines 6
- 602-181 Hybrid System/Toyota 1
- Total semester credits** 9

Curriculum is current as of catalog printing. The most current curriculum requirements for graduation will be provided upon admission to program, or review at www.wctc.edu. The ability to complete a full certificate may be affected by low enrollment.

- 602-130 Alignment/Suspension/Steering** 2
Participate in the inspection, diagnosis and repair of automotive steering and suspension systems. Demonstrate wheel alignment procedures and related steering and suspension system service. Hands-on experience will be gained in power and manual steering gears and comprehensive training in wheel mounting and balancing.
Prerequisites: 602-100 Automotive Fundamentals (or concurrent) or 602-121 Engine Fundamentals (or concurrent)
- 602-143 Fuel Management I** 4
Study the basic principles of carburetion, ignition, and emission control systems (basic computer command control). Microprocessor control systems will be emphasized in this study of fuel emission control systems.
Prerequisites: 602-100 Automotive Fundamentals (or concurrent) or 602-121 Engine Fundamentals (or concurrent) and 602-110 Electrical Systems & Acc (or concurrent) and 602-180 Electronic Accessories (or concurrent)
- 602-150 Automotive Temperature Control** 2
Study the theory, operation, maintenance, and repair of all late model air conditioning systems, including intricately designed systems that are controlled by the computer.
Prerequisites: 602-110 Electrical Systems & Acc (or concurrent)
- 602-161 Transmissions/Transaxles/Drive** 6
Become familiar with three-, four- and five-speed manual transmissions/transaxles and all automatic transmissions/transaxles used on front wheel drive cars. Study diagnosis and repair procedures.
Prerequisites: 602-100 Automotive Fundamentals (or concurrent) or 602-121 Engine Fundamentals (or concurrent)
- 602-170 Automotive Brakes** 2
Learn how to service drum and disc brake systems and be introduced to power brakes, both vacuum and hydra-boost types. In addition, use scan tools as a diagnostic technique for anti-lock brake system problems and other brake-related issues
Prerequisites: 602-100 Automotive Fundamentals (or concurrent) or 602-121 Engine Fundamentals (or concurrent)
- 602-180 Electronic Accessories** 2
Examine the electronic accessories, such as electronic instrumentation and cruise control, found on today's automobile.
Prerequisites: 602-110 Electrical Systems & Acc (or concurrent)
- 602-181 Hybrid System/Toyota** 1
Examine the primary operation systems and components of Toyota hybrid vehicles. System integration, operation, diagnosis, safety considerations and maintenance is emphasized. Continued training for Toyota technicians.
- 602-190 Co-Op Dealership Experience I** 1
Take part in a period of involved employment, guided by an organized student learning plan, in the automotive field.
Prerequisites: 602-100 Automotive Fundamentals (or concurrent) or 602-121 Engine Fundamentals (or concurrent)
- 602-191 Co-Op Dealership Experience II** 1
Take part in a period of involved employment, guided by an organized student learning plan, in the automotive field.
Prerequisites: 602-190 Co-Op Dealership Experience I