

TOYOTA TECHNICAL EDUCATION NETWORK

TTEN-110 Shop Fundamentals and Safety 1 cr.

This course will orient the student to shop operations, use of service manuals, pay structures, tools, warranties, and customer relations. Shop safety will be strongly emphasized as well as employee/employer relations. Corequisite: TTEN 120. Semester offered: Fall.

TTEN-120 Electrical and Ignition System 7 cr.

A study of the electrical and electronic systems found in the automotive field. Emphasis is on basic circuitry, starting systems, charging systems, ignition systems, diagnosis and servicing the electrical components on current Toyota vehicles. Corequisite: TTEN 110. Semester offered: Fall.

TTEN-130 Fuel and Emission Systems 4 cr.

A study of the fuel and emission control systems used on current Toyota vehicles. Students will learn to use the exhaust gas analyzer, oscilloscope, and other special test equipment. Prerequisites: TTEN 120, TTEN 280. Corequisite: TTEN 140. Semester offered: Spring.

TTEN-140 Drivability 4 cr.

A systematic troubleshooting method for Toyota fuel, electrical, and electronic systems. Use of tools and equipment needed for proper diagnosis emphasized. Prerequisite: TTEN 280. Corequisite: TTEN 130. Semester offered: Spring.

TTEN-145 ASE Tests 1 cr.

Sign up for a minimum of two ASE exams and pass one. Semester offered: Spring.

TTEN-146 ASE Tests 1 cr.

Take and pass remaining ASE exams. Students are required to pass a minimum of four ASE exams in order to receive credit and graduate. Any tests passed in TTEN 145 are counted as part of the requirement. Prerequisite: TTEN 145. Semester offered: Spring.

TTEN-150 Engines and Related Systems 4 cr.

This course covers the principles and operation of the internal combustion engine. Toyota internal combustion engines will be properly disassembled with nomenclature identification. All parts will be inspected, measured, and reassembled. Troubleshooting and diagnostic procedures will be emphasized on all systems. Prerequisite: TTEN 281. Corequisite: TTEN 160. Semester offered: Summer.

TTEN-160 Heating and Air Conditioning 2 cr.

A theory and shop course to teach the student automotive air conditioning and heating systems as they apply to current model Toyotas. The use of test equipment will be emphasized and the student will learn to diagnose, evacuate, recover refrigerant and recharge air conditioning systems. Corequisite: TTEN 150, TTEN 281. Semester offered: Summer.

TTEN-170 Power Trains 8 cr.

The theory and practical application of Toyota power trains and differential

service will be taught. Diagnosis, troubleshooting and actual repair procedures will be performed in the shop. Prerequisite: TTEN 160, TTEN 282. Semester offered: Fall.

TTEN-180 Brake Systems 4 cr.

A study of the theory and diagnostic repair procedures of Toyota disc and drum brake systems will be taught. Instruction will be given on brake machining equipment, hydraulic systems and component replacement on traditional and anti-lock brake systems. Prerequisite: TTEN 170, TTEN 283. Corequisite: TTEN 190. Semester offered: Spring.

TTEN-190 Steering and Suspension 4 cr.

A theory and shop course to introduce the student to Toyota steering geometry, front and rear suspension service, wheel alignment, and wheel balancing. Lab work will include instruction on the latest model vehicles steering and suspension systems. Prerequisite TTEN 283. Corequisite: TTEN 180. Semester offered: Spring.

TTEN-280 Toyota Cooperative Work Education 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily log and weekly reports MUST be submitted once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisite: TTEN 120.

TTEN-281 Toyota Cooperative Work Education 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisite: TTEN 140.

TTEN-282 Toyota Cooperative Work Education 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisite: TTEN 160.

TTEN-283 Toyota Cooperative Work Education 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisite: TTEN 170.

TRIBAL GOVERNANCE

TGOV-120 History of Tribal Gov and Structure 3 cr.

Presents the history of the tribal government from its beginning to its present state. Addressed are the structural system, political concepts, cultural issues, and catalytic dynamics of the tribal government. Semester offered: Fall.