

Automotive Service Technician – Online Upgrading

A Guide to Course Content

Automotive Service Technicians diagnose, service, repair, and replace all parts of automobiles, light trucks and light buses, except for body repairs and repainting.

Training Requirements:

All candidates applying for upgrading training must be eligible to challenge the Automotive Service Technician Interprovincial Journeyperson examination.

This program is designed to prepare individuals to challenge the Automotive Service Technician Interprovincial Journeyperson examination.

Upgrading for apprentice Automotive Service Technicians is designed to help apprentices learn and reinforce those skills needed to become competent Journeyperson Automotive Service Technicians.

The upgrading program has a rigorous training schedule. Individuals must be able to manage a large volume of reading material in a short period of time. Completion of all assignments is integral to success.

As there is no practical component to the online upgrading training program, additional study is recommended in areas where individuals have minimal on-the-job experience.

Important Notes:

In 2022-23, the courses will begin at the end of August 2022, with the enrollment for the courses closing December 31st. Students are expected to complete their course by the end of training in June 2023.

In 2023-24, the courses will begin at the end of August 2023, with the enrollment for the courses closing November 30th. The courses has an end date for the technical training year; and students must complete the course by May 31st, 2024.

Participants will be required to complete self-assessment reviews (quizzes) as they appear in sequential order throughout the course. The course is set up in eight (8) Blocks of training which is reflective of how the trade is outlined in the Red Seal Occupational Standard (RSOS) document. At the end of each training block in the course, there is a timed Block End Final exam which is delivered in multiple choice format. The score of each of these Block Final examinations will count towards your final grade.

Computers used by participants for this program must meet certain minimum technical requirements. This information will be provided upon successful application to this program.

Interested candidates must contact SATCC, not Saskatchewan Polytechnic, when applying for this program.

This document briefly summarizes the training delivered in the upgrading.

The content of the technical training components is subject to change without notice.

A – PERFORMS COMMON OCCUPATIONAL SKILLS

- **A-1 PERFORMS SAFETY-RELATED FUNCTIONS**
 - Maintains safe work environment
 - Uses personal protective equipment (PPE) and safety equipment
- **A-2 USES TOOLS, EQUIPMENT AND DOCUMENTATION**
 - Uses tools and equipment
 - Uses fasteners, tubing, hoses and fittings
 - Uses hoisting and lifting equipment
 - Uses technical information
- **A-3 USES COMMUNICATION AND MENTORING TECHNIQUES**
 - Uses communication techniques
 - Uses mentoring techniques

B – DIAGNOSES AND REPAIRS ENGINE AND ENGINE SUPPORT SYSTEMS

- **B-4 DIAGNOSES ENGINE SYSTEMS**
 - Diagnoses cooling systems
 - Diagnoses lubricating systems
 - Diagnoses engine assembly
 - Diagnoses accessory drive systems
- **B-5 REPAIRS ENGINE SYSTEMS**
 - Repairs cooling systems
 - Repairs lubricating systems
 - Repairs engine assembly
 - Repairs accessory drive systems
- **B-6 DIAGNOSES GASOLINE ENGINE SUPPORT SYSTEMS**
 - Diagnoses gasoline fuel delivery and injection systems
 - Diagnoses gasoline ignition systems
 - Diagnoses gasoline intake/exhaust systems
 - Diagnoses gasoline emission control systems
- **B-7 REPAIRS GASOLINE ENGINE SUPPORT SYSTEMS**
 - Repairs gasoline fuel delivery and injection systems
 - Repairs gasoline ignition systems
 - Repairs gasoline intake/exhaust systems
 - Repairs gasoline emission control systems
- **B-8 DIAGNOSES DIESEL ENGINE SUPPORT SYSTEMS**
 - Diagnoses diesel fuel delivery and injection systems
 - Diagnoses diesel intake/exhaust systems
 - Diagnoses diesel emission control systems
- **B-9 REPAIRS DIESEL ENGINE SUPPORT SYSTEMS**
 - Repairs diesel fuel delivery and injection systems
 - Repairs diesel intake/exhaust systems
 - Repairs diesel emission control systems

C – DIAGNOSES AND REPAIRS VEHICLE MODULE COMMUNICATIONS SYSTEMS

- **C-10 DIAGNOSES VEHICLE NETWORKING SYSTEMS**
 - Reads diagnostic trouble codes (DTCs)
 - Monitors data
 - Interprets test results
 - Tests system circuitry and components
- **C-11 REPAIRS VEHICLE NETWORKING SYSTEMS**
 - Updates component software
 - Replaces components
 - Verifies vehicle module communications system repair

D – DIAGNOSES AND REPAIRS DRIVELINE SYSTEMS

- **D-12 DIAGNOSES DRIVELINE SYSTEMS**
 - Diagnoses drive shafts and axles
 - Diagnoses manual transmissions/transaxles
 - Diagnoses automatic transmissions/transaxles
 - Diagnoses clutches
 - Diagnoses transfer cases
 - Diagnoses final drive assemblies
- **D-13 REPAIRS DRIVELINE SYSTEMS**
 - Repairs drive shafts and axles
 - Repairs manual transmissions/transaxles
 - Repairs automatic transmissions/transaxles
 - Repairs clutches
 - Repairs transfer cases
 - Repairs final drive assemblies

E – DIAGNOSES AND REPAIRS ELECTRICAL AND COMFORT CONTROL SYSTEMS

- **E-14 DIAGNOSES ELECTRICAL SYSTEMS AND COMPONENTS**
 - Diagnoses basic wiring and electrical systems
 - Diagnoses starting/charging systems and batteries
 - Diagnoses lighting and wiper systems
 - Diagnoses entertainment systems
 - Diagnoses electrical options
 - Diagnoses instrumentation and information displays
 - Diagnoses electrical accessories
- **E-15 REPAIRS ELECTRICAL SYSTEMS AND COMPONENTS**
 - Repairs basic wiring and electrical systems
 - Repairs starting/charging systems and batteries
 - Repairs lighting and wiper systems
 - Repairs entertainment systems
 - Repairs electrical options
 - Repairs instrumentation and information displays
 - Installs electrical accessories
 - Repairs electrical accessories

- **E-16 DIAGNOSES HEATING, VENTILATION AND AIR CONDITIONING (HVAC) AND COMFORT CONTROL SYSTEMS**
 - Diagnoses air flow control systems
 - Diagnoses refrigerant systems
 - Diagnoses heating systems
- **E-17 REPAIRS HVAC AND COMFORT CONTROL SYSTEMS**
 - Repairs air flow control systems
 - Repairs refrigerant systems
 - Repairs heating systems

F – DIAGNOSES AND REPAIRS STEERING AND SUSPENSION, BRAKING, CONTROL SYSTEMS, TIRES, HUBS AND WHEEL BEARINGS

- **F-18 DIAGNOSES STEERING AND SUSPENSION, BRAKING, CONTROL SYSTEMS, TIRES, WHEELS, HUBS AND WHEEL BEARINGS**
 - Diagnoses steering, suspension and control systems
 - Diagnoses braking and control systems
 - Diagnoses tires, wheels, hubs and wheel bearings
- **F-19 REPAIRS STEERING AND SUSPENSION, BRAKING, CONTROL SYSTEMS, TIRES, WHEELS, HUBS AND WHEEL BEARINGS**
 - Repairs steering, suspension and control systems
 - Repairs braking and control systems
 - Repairs tires, wheels, hubs and wheel bearings

G – DIAGNOSES AND REPAIRS RESTRAINT SYSTEMS, BODY COMPONENTS, ACCESSORIES AND TRIM

- **G-20 DIAGNOSES RESTRAINT SYSTEMS, BODY COMPONENTS, ACCESSORIES AND TRIM**
 - Diagnoses restraint systems
 - Diagnoses wind noises, rattles and water leaks
 - Diagnoses interior and exterior components, accessories and trim
 - Diagnoses latches, locks and movable glass
- **G-21 REPAIRS RESTRAINT SYSTEMS, BODY COMPONENTS, ACCESSORIES AND TRIM**
 - Repairs restraint systems
 - Repairs wind noises, rattles and water leaks
 - Repairs interior and exterior components, accessories and trim
 - Repairs latches, locks and movable glass

H – DIAGNOSES AND REPAIRS HYBRID AND ELECTRIC VEHICLES (EV)

- **H-22 DIAGNOSES HYBRID AND EV**
 - Implements specific safety protocols for hybrid and EV
 - Diagnoses hybrid and EV systems
- **H-23 REPAIRS HYBRID AND EV**
 - Repairs hybrid vehicle systems
 - Repairs EV systems

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