

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 Interprovincial Journeyperson examination.

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

The upgrading program encompasses the scope of the trade. Completion of all assignments and/or modules including assessments is required.

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

Important Notes:

This program uses a continuous intake so candidates may apply at any time; however, the class does not begin until September of each year. This gives the participants a maximum of eight months to complete the entire course.

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 the SATCC, not Saskatchewan Polytechnic, when applying for this program.

The information contained in this pamphlet serves as a guide for employers and apprentices.

The pamphlet briefly summarizes the training delivered in the upgrading program.

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

Occupational Skills

Information will be provided on the following general topics:

- **Tools and Equipment:** includes hand tools, power tools, welding/cutting devices, shop equipment, and diagnostic and measuring tools, calibration schedules and requirements for precision equipment, hoisting and lifting practices and training requirements, types and applications of personal protective equipment (PPE) and safety equipment
- **Organizes Work:** includes information on work orders, scheduling, cost and estimating procedures.
- **Routine Trade Tasks:** apply government regulations such as WHMIS, location and use of safety equipment such as first aid and fire extinguishers, company policies, industry specific software, technical terminology, sources of technical information such as TSBs, service manuals, and websites

Engine and Engine Support Systems

Information will be provided on the following general topics:

- **Diagnose Engine Systems:** includes diagnosing cooling systems, lubrications systems and base engine systems
- **Repair Engine Systems:** includes repairs to cooling systems, lubrications systems, and base engine systems
- **Diagnose Engine Support Systems:** includes diagnosing fuel delivery systems, ignition systems, intake/exhaust systems, emission systems, accessory drive systems and mounts, diesel engine support systems
- **Repairs Engine Support Systems:** includes repairs to fuel delivery systems, ignition systems, intake/exhaust systems, emission systems, accessory drive systems and mounts and diesel engine support systems

Vehicle Management Systems

Information will be provided on the following general topics:

- **Diagnose Vehicle Management Systems:** includes reading diagnostic trouble codes (DTCs), monitoring parameters, interpreting test results and testing system circuitry and components
- **Repairs Vehicle Management Systems:** includes interpreting and clearing of diagnostic trouble codes (DTCs), monitoring parameters, interpreting test results and repairing system circuitry and components

Drive Line Systems

Information will be provided on the following general topics:

- **Diagnose Drive Line Systems:** includes drive shafts and axles, automatic and manual transmissions and transaxles, clutches, transfer cases and final drive assemblies
- **Repairs Drive Line Systems:** includes drive shafts and axles, automatic and manual transmissions and transaxles, clutches, transfer cases and final drive assemblies

Electrical and Comfort Control Systems

Information will be provided on the following general topics:

- **Diagnose Electrical and Comfort Control Systems:** includes starting/charging systems and batteries, wiring, electrical systems and accessories, lighting and wiper systems, entertainment systems, electrical options, instrumentation and information displays

- **Repairs Electrical Systems and Components:** includes starting/charging systems and batteries, wiring, electrical systems and accessories, lighting and wiper systems, entertainment systems, electrical options, instrumentation and information displays
- **Diagnose HVAC and Comfort Control Systems:** includes air flow control systems, refrigerant systems and heating systems
- **Repairs HVAC and Comfort Control Systems:** includes air flow control systems, refrigerant systems and heating systems

Steering and Suspension, Braking, Control Systems, Tires, Hubs and Wheel Bearings

Information will be provided on the following general topics:

- **Diagnose Steering and Suspension, Braking, Control Systems, Tires, Wheels, Hubs, and Wheel Bearings:** includes precise control steering systems, systems to support and cushion the vehicle, calipers, wheel cylinders and actuators, antilock braking systems (ABS), traction control systems (TCS) and dynamic stability control (DSC), wheel bearings, hub assemblies, wheel balance and wheel alignment
- **Repairs Steering and Suspension, Braking, Control Systems, Tires, Wheels, Hubs, and Wheel Bearings:** includes repairs to precise control steering systems, systems to support and cushion the vehicle, calipers, wheel cylinders and actuators, antilock braking systems (ABS), traction control systems (TCS) and dynamic stability control (DSC), wheel bearings, hub assemblies, wheel balance and wheel alignment

Body Components, Trim and Restraint Systems

Information will be provided on the following general topics:

- **Diagnose Body Components, Trim and Restraint Systems:** includes restraint systems, wind noise, rattles, water leaks, interior and exterior components and trim, latches, locks and movable glass
- **Repairs Body Components, Trim and Restraint Systems:** includes restraint systems, wind noise, rattles, water leaks, interior and exterior components and trim, latches, locks and movable glass
- **Hybrid and Alternate Fuel Systems**

Information will be provided on the following general topics:

- **Diagnose Hybrid and Alternate Fuel Systems:** includes hybrid systems, components, alternate fuel systems and implementing hybrid safety protocols
- **Repairs Hybrid and Alternate Fuel Systems:** includes hybrid systems, components, alternate fuel systems and implementing hybrid safety protocols

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