

YOUR ITA TRADE CERTIFICATION GUIDEBOOK

AUTOMOTIVE SERVICE TECHNICIAN PRIOR TO SEPTEMBER 1, 2017



Effective September 1, 2017 the Automotive Service Technician 1, 2, 3 and 4 Apprenticeship program was updated due to the Pan-Canadian Harmonization Initiative.

If you have completed two or more levels of technical training prior to September 1, 2017, the technical training for the Automotive Service Technician program you are currently registered in will be phased out. The following options apply:

OPTION 1: COMPLETE CURRENT PROGRAM

Current Level 3	Must be completed by September 2020
Current Level 4	Must be completed by September 2021

OPTION 2: TRANSITION TO NEW HARMONIZED PROGRAM

Transition from Current Level 2 to Harmonized Level 3	Sponsor sign off is required on competency gaps (contact your ITA Advisor). Once this form is received and processed you can attend the harmonized Level 3 technical training which will be implemented AFTER September 1, 2018 .
Transition from Current Level 3 to Harmonized Level 4	Sponsor sign off is required on competency gaps (contact your ITA Advisor). Once this form is received and processed you can attend the harmonized Level 4 technical training which will be implemented AFTER September 1, 2019 .



CERTIFICATE OF QUALIFICATION LEVEL 3 EXAMINATION

✓ **AST LEVEL THREE**

Electrical And Electronic Systems

- Describe advanced electrical and electronic principles
- Interpret advanced wiring diagrams
- Describe advanced diagnostic procedures
- Use advanced electrical test equipment
- Describe computer control systems
- Describe multiplex and network systems

Fuel Delivery Systems

- Describe fuel types
- Service fuel delivery components
- Service gasoline fuel injection components
Describe electronic diesel fuel injection systems

Electronic Ignition Systems

- Describe electronic ignition principles
- Service electronic distributor ignition systems
Service electronic ignition systems

Engine Management Systems

- Describe engine management systems
- Test engine management input sensors
- Test engine management output actuators
Analyze on-board diagnostic system data
- Describe gasoline direct injection

Emission Control Systems

- Describe vehicle emissions
- Describe emission legislation
- Service pre-combustion emission systems
- Service post-combustion emission systems
Describe diesel emissions systems
- Test OBD II evaporative emission systems
- Perform exhaust gas analysis

AST 4 STANDARDIZED LEVEL EXAMINATION

Standard Level Exams (SLEs) are usually written on the last day of in-school training and will count for 20% of your overall mark. For the SLEs you must bring your own Code Book.

✓ **AST LEVEL FOUR**

Clutch Systems

- Service clutch systems
- Describe transmission removal and installation procedures

Manual Transmissions

- Calculate gear ratios
- Service transmission shifting linkages
- Overhaul manual transmissions

Automatic Transmissions

- Describe torque converters
- Describe planetary gear trains
- Overhaul automatic transmissions
- Service hydraulic and electrical control systems

Drive Lines

- Describe torque converters
- Describe planetary gear trains
- Overhaul automatic transmissions
- Service hydraulic and electrical control systems

All-Wheel And Four-Wheel Drive Systems

- Inspect all-wheel drive systems
- Service mechanical and electronic four-wheel drive systems

Hybrid Drive Line Technology

- Describe hybrid vehicle systems
- Describe hybrid drive systems

REMINDERS

- You must bring a piece of Government PHOTO identification. The ID must be VALID and CURRENT. Expired IDs and IDs with no expiry date will not be accepted.
- Your Training Provider will inform you of the time and location of the exam. Arrive early.

RED SEAL INTER-PROVINCIAL EXAM

The Red Seal Inter-Provincial Exam covers a whole range of competencies from all your levels of technical training.

The table below is a general breakdown of areas of competencies covered in the Red Seal IP exam.

The areas of competencies covered in the Red Seal IP exam can change. Check **Occupational Standard for current exams** at www.red-seal.ca/trades/c.1rp.2nt.2r-eng.html for accuracy.

BLOCK A Occupational Skills	Task 1	Uses and maintains tools and equipment
	Task 2	Performs common trade activities
BLOCK B Engine and Engine Support Systems	Task 3	Diagnoses engine systems
	Task 4	Repairs engine systems
	Task 5	Diagnoses engine support systems
	Task 6	Repairs engine support systems
BLOCK C Vehicle Management Systems	Task 7	Diagnoses vehicle management systems
	Task 8	Repairs vehicle management systems
BLOCK D Drive Line Systems	Task 9	Diagnoses drive line systems
	Task 10	Repairs drive line systems
BLOCK E Electrical and Comfort Control Systems	Task 11	Diagnoses electrical systems and components
	Task 12	Repairs electrical systems and components
	Task 13	Diagnoses heating, ventilation and cooling (HVAC) and comfort control systems
	Task 14	Repairs heating, ventilation and cooling (HVAC) and comfort control systems
BLOCK F Steering and Suspension, Braking, Control Systems, Tires, Hubs and Wheel Bearings	Task 15	Diagnoses steering and suspension, braking, control systems, tires, hubs and wheel bearings
	Task 16	Repairs steering and suspension, braking, control systems, tires, hubs and wheel bearings
BLOCK G Body Components, Trim and Restraint Systems	Task 17	Diagnoses body components, trim and restraint systems
	Task 18	Repairs body components, trim and restraint systems and installed accessories
BLOCK H Hybrid and Alternate Fuel Systems	Task 19	Diagnoses hybrid and alternate fuel systems
	Task 20	Repairs hybrid and alternate fuel systems