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**
- Sponsor sign off is required on competency gaps (contact your ITA Advisor).
- Transition from Current Level 2 to Harmonized Level 3
- Sponsor sign off is required on competency gaps (contact your ITA Advisor).
- Transition from Current Level 3 to Harmonized Level 4
- Sponsor sign off is required on competency gaps (contact your ITA Advisor).

### 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

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### 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/C1rp.2nt.2r-eng.html](http://www.red-seal.ca/trades/C1rp.2nt.2r-eng.html) for accuracy.
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 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
- Test OBD II evaporative emission systems
- Perform exhaust gas analysis

✓ 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.
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**
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RECOMMENDATION FOR CERTIFICATION

Certificate of Qualification
AST 3

Certificate of Apprenticeship
AST 3

Certificate of Qualification
AST

Certificate of Apprenticeship
AST

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](http://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 |
| BLOCK A | Occupational Skills | Task 2 | Performs common trade activities |

| BLOCK B | Engine and Engine Support Systems | Task 3 | Diagnoses engine systems |
| BLOCK B | Engine and Engine Support Systems | Task 4 | Repairs engine systems |
| BLOCK B | Engine and Engine Support Systems | Task 5 | Diagnoses engine support systems |
| BLOCK B | Engine and Engine Support Systems | Task 6 | Repairs engine support systems |

| BLOCK C | Vehicle Management Systems | Task 7 | Diagnoses vehicle management systems |
| BLOCK C | Vehicle Management Systems | Task 8 | Repairs vehicle management systems |

| BLOCK D | Drive Line Systems | Task 9 | Diagnoses drive line systems |
| BLOCK D | Drive Line Systems | Task 10 | Repairs drive line systems |

| BLOCK E | Electrical and Comfort Control Systems | Task 11 | Diagnoses electrical systems and components |
| BLOCK E | Electrical and Comfort Control Systems | Task 12 | Repairs electrical systems and components |
| BLOCK E | Electrical and Comfort Control Systems | Task 13 | Diagnoses heating, ventilation and cooling (HVAC) and comfort control systems |
| BLOCK E | Electrical 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 |
| BLOCK F | 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 |
| BLOCK G | 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 |
| BLOCK H | Hybrid and Alternate Fuel Systems | Task 20 | Repairs hybrid and alternate fuel systems |

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.

RECOMMENDATION FOR CERTIFICATION

Certificate of Qualification
AST 3

Certificate of Apprenticeship
AST 3

Certificate of Qualification
AST

Certificate of Apprenticeship
AST