



ASTA3 – Automotive Service Technician Apprenticeship Level 3

Trades

Effective Term & Year: Fall 2022

Program Outline Review Date: 2025-09-01

Program Area: Trades Apprenticeship Training

Description:

This 7-week program delivers the skills, knowledge and training required for Level 3 of the 4-level Automotive Service Technician Apprenticeship program. Program competencies covered include servicing and testing gasoline engine support systems, vehicle networking systems, driveline systems, electrical systems and components. This program includes classroom theory, demonstrations and practical hands-on training in a fully functioning automotive shop. Safe work habits are important in this trade and are emphasized, reinforced and practiced throughout the program.

Credentials Granted:

Level 3 Technical Training credit of the Automotive Service Technician Apprenticeship program from the Industry Training Authority (ITA).

Delivery Methods: Hybrid (Face-to-Face and Online)

Program Duration: 7 weeks

Instructional Activity and Hours:

Activity	Hours
Instructional Hours (hrs/wk)	28 hrs/wk
Directed Studies (hrs/wk)	2 hrs/wk
Total (hrs/wk)	30 hrs/wk

Total Program Hours 210 Hours

Content Weighting:

Activity	Percentage
Classroom, Directed Studies or Online Instruction	70%
Seminar/Tutorials	30%

Admission Requirements:

Sponsored Automotive Service Technician apprentice who has successfully completed Level 2 technical training.

Flexible Assessment:

Credit cannot be awarded for this program through Flexible Assessment.

Program Transfer Credit:

For information about block transfer agreements between programs in British Columbia, Alberta, and elsewhere, please visit <http://www.cotr.bc.ca/transfer>.

To minimize transfer issues, check with an academic advisor at the institution that will receive the transfer credits.

Textbooks and Required Resources:

Textbook selection varies by instructor and may change from year to year. At the Program Outline Effective Date the following textbooks were in use (most current edition):

AST – Level 3: COTR Custom Package

Automotive Fuel and Emissions Control Systems

Please see the instructor's syllabus or check COTR's online text calculator <https://textbook.cotr.bc.ca/> for a complete list of the currently required textbooks.

Program Competencies and Technical Training Content:

Upon successful completion of this program, students will be able to:

AMST 301 Diagnose and Repair Gasoline Engine Support Systems

- Diagnose and repair advanced wiring and electronics
- Diagnose and repair gasoline fuel delivery and injection systems
- Diagnose and repair gasoline ignition systems
- Diagnose and repair engine management systems
- Diagnose and repair gasoline intake and exhaust systems
- Diagnose and repair gasoline emissions control systems

AMST 302 Diagnose and Repair Vehicle Networking Systems

- Identify type of networking system
- Diagnose and repair networking systems

AMST 303 Diagnose and Repair Driveline Systems

- Diagnose and repair mechanical transfer case

AMST 304 Diagnose and Repair Electrical Systems and Components

- Diagnose and repair electrical options and accessories

Evaluation and Assessment:

AUTOMOTIVE SERVICE TECHNICIAN LEVEL 3

COTR COURSE	SUBJECT COMPETENCIES	THEORY WEIGHTING	PRACTICAL WEIGHTING
AMST 301	Diagnose and Repair Gasoline Engine Support Systems	64%	65%
AMST 302	Diagnose and Repair Vehicle Networking Systems	15%	10%
AMST 303	Diagnose and Repair Driveline Systems	2%	0%
AMST 304	Diagnose and Repair Electrical Systems and Components	19%	25%
	Total	100%	100%
In-school theory & practical subject competency weighting		70%	30%
Final in-school percentage score		IN-SCHOOL %	

In-school Percentage Score	
Combined theory and practical subject competency multiplied by	80%
Standardized Level Exam Percentage Score	
The exam score is multiplied by	20%
Final Percentage Score	FINAL %

Pass Requirements:

In order to pass this program, students are required to

- achieve a minimum overall 70% final percentage score

Students must provide their own:

- steel-toed leather work boots
- safety glasses
- coveralls
- gloves
- pens, pencils, three-ring binder
- calculator
- paper
- multimeter

Academic Policies:

College of the Rockies policies related to courses can be found at <https://cotr.bc.ca/about-us/college-policies/> and include the following:

- Policy 2.4.3 Students with Documented Disabilities
- Policy 2.4.4 Student Conduct (plagiarism, other cheating, behavioral misconduct)
- Policy 2.5.8 Academic Performance
- Policy 2.5.3 Grade Appeal
- Policy 2.4.9 Student Concerns Re Faculty

Program Grade

COM	NCG
Completed to the defined standard – 70% or greater	No Credit Granted – less than 70%

Program Changes:

Information contained in program outlines is correct at the time of publication. Content of the program is revised on an ongoing basis to ensure relevance to changing educational, employment, and marketing needs. The instructor endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add material to programs.

Industry Training:

The program competencies and technical training content delivered in this program follow the SkilledTradesBC Program Outline for this trade.

Safety Catalog:

WorkSafeBC regulations apply to all trades programs. Students are expected to follow all safe work practices and have high regard for the safety of others as well as of themselves. Students are responsible to wear personal protective equipment (PPE) as directed. At a minimum, students must provide and wear approved safety footwear and eyewear at all times in the shop. Additional PPE may be required for specific tasks. Students are expected to wear clothing suitable for working safely in the shop.

Course Descriptions: Refer to Course Outlines – <https://outlines.cotr.bc.ca/course/>