AUTOMOTIVE SERVICE TECHNOLOGY DIPLOMA

Purpose

The **Automotive Service Technology Diploma** is designed to train people for the automotive repair industry. Graduates will have acquired advanced knowledge, skills, and attitudes necessary to carry out their duties in a safe, ethical, and professional manner. The 2 year program delivers apprenticeship training to enhance a graduate's employability as an apprentice in the industry.

Duration

The program is 2 years in length. Maximum time for completion is 5 years.

Learning Outcomes

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

1. Practice safely including complying with WorkSafe BC and WHMIS regulations.

2. Apply employability and communication skills while working in a businesslike manner.

3. Utilize hand, measuring, and power tools and equipment safely and effectively.

4. Provide general automotive maintenance services including lubrication and fluids, belts and hoses, exterior lamps, body trim and hardware, tires and wheels, non-friction bearings and spindles and hubs.

5. Assess, diagnose and service hydraulic, drum brake, disc brake, power assist and anti-lock brake systems.

6. Assess, diagnose and service steering systems.

7. Assess, diagnose and service suspension systems.

8. Describe and diagnose electrical, electronic, and ignition systems.

9. Analyze and diagnose On Board Diagnostic (OBD) System data using advanced electrical test equipment including computer controls, multiplex and network systems.

10. Identify and service fuel delivery systems, fuel types, alternate fuels, and gasoline fuel injection components.

11. Describe and test engine management systems including input sensors and output actuators.

12. Describe new vehicle technology and hybrid systems.

13. Describe and service vehicle pre- and post-combustion systems, emissions, test OBD-II evaporative emission systems, and perform exhaust gas analysis.

Admission Requirements

- Grade 12 graduation or equivalent
- Knowledge of English demonstrated by *one* of the following:
  - Composition 11 (English 11) or equivalent, *or*
  - English Language Proficiency (https://www.vcc.ca/international/future-students/apply/english-requirements/) at an English 11 level
- Workplace Math 10 or equivalent

Note: Relevant trades experience can be assessed for entrance into the program.

Program Requirements

Term One		Credits
IAST 1010	Automotive Safety	2
IAST 1015	Communication and Business	2
IAST 1020	Automotive Repair Tools	4
IAST 1025	Automotive Service	7
	Credits	**15**
Term Two		
IAST 1030	Automotive Methods	4
IAST 1023	Automotive Electronics	6
IAST 1035	Hydraulic & Mechanical Brakes	6
	Credits	**16**
Term Three		
IAST 2010	Auto Frame & Body Support	4
IAST 2016	Automotive Steering	7
IAST 2020	Advanced Electric/Electronics	5
	Credits	**16**
Term Four		
IAST 2025	Electronic Ignition Systems	3
IAST 2030	Fuel Delivery Systems	3
IAST 2035	Engine Management Systems	4
IAST 2040	Emission Control Systems	3
	Credits	**13**
	Total Credits	**60**

This guide is intended as a general guideline only. The college reserves the right to make changes as appropriate.

Evaluation of Student Learning

Students are evaluated by both theory and practical evaluations in order for a combined mark to be assigned- 70% is based on theory and 30% is based on their practical work.

Theory is evaluated by:

- Course work and competency tests determining 60%
- Final examination which comprises 40%

Practical is assessed by:

- rubrics to evaluate the students' performance of their competency for quality repair, clean work habits, safety, participation, teamwork, and the ability to follow instructions.

Final grades reflect a combination of theory and practical marks. In alignment with provincial standards, the passing grade is B- (70%).

Prior Learning Assessment & Recognition (PLAR)

Prior learning assessment and recognition is not available for this program.

Transcript of Achievement

The evaluation of learning outcomes for each student is prepared by the instructor and reported to the Student Records Department at the completion of semesters.

The transcript typically shows a letter grade for each course. The grade point equivalent for a course is obtained from letter grades as follows:

Grading Standard

Grade	Percentage	Description	Grade Point Equivalency
A+	96-100		4.33
A	91-95		4.00
A-	86-90		3.67
B+	81-85		3.33
B	76-80		3.00
B-	70-75		2.67
F	0-69	Failing Grade	0.00
S	70 or greater	Satisfactory – student has met and mastered a clearly defined body of skills and performances to required standards	N/A
U		Unsatisfactory – student has not met and mastered a clearly defined body of skills and performances to required standards	N/A
I		Incomplete	N/A
IP		Course in Progress	N/A
W		Withdrawal	N/A
Course Standings			
R		Audit. No Credit	N/A
EX		Exempt. Credit Granted	N/A
TC		Transfer Credit	N/A

Grade Point Average (GPA)

1. The course grade points shall be calculated as the product of the course credit value and the grade value.
2. The GPA shall be calculated by dividing the total number of achieved course grade points by the total number of assigned course credit values. This cumulative GPA shall be determined and stated on the Transcript at the end of each Program level or semester.
3. Grades shall be assigned to repeated courses in the same manner as courses taken only once. For the purpose of GPA calculation of grades for repeated courses, they will be included in the calculation of the cumulative GPA.