



COURSE OUTLINE

Course Name: General Automotive Practices

Course Number: AUTO1134

Number of Credits: 3

Effective Date: September 2017

Course Description:

This course covers diagnostic processes and procedures used for troubleshooting vehicle malfunctions, diagnosis of fuel delivery systems, internal combustion principles, replacement of gaskets and seals, and basic vehicle emissions.

School or Centre:

Trades, Technology and Design

Year of Study:

1st Year Post-secondary

Course History:

Revised Course

Name of Replacing Course (if applicable):

Course Pre-requisites (if applicable):

Admission to the Automotive Service Technician Foundation Program.

Course Co-requisites (if applicable):

None

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

None

Instructional Strategies:

Classroom activities are lectures, demonstrations, audio-visual presentations and exercises. Practical experience takes place in an active shop setting dealing with real customers. The extensive workshop experience reinforces theoretical concepts and develops manual dexterity. The active shop also provides familiarity with repair procedures and electronic equipment standard safety procedures. All modules are designed to enable the student to work independently and in groups.

Course Learning Outcomes:

- Describe the rationale of following a diagnostic process.
- Describe general diagnostic procedures including manufacturer's procedures where available.
- Describe the importance of failure analysis.
- Diagnosis of fuel delivery systems.
- Describe internal combustion principles.
- Diagnose gaskets and seals.
- Describe basic vehicle emissions.

Program Learning Outcomes:

- Demonstrate safe working practices including compliance with Worksafe BC and WHMIS regulations
- Demonstrate employability and communication skills and work in a businesslike manner
- Utilize hand, measuring, and power tools and equipment safely and effectively
- 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
- Demonstrate general automotive practices including diagnostic procedures and welding safety.
- Assess, diagnose, and service basic electrical systems
- Assess, diagnose, and service hydraulic, drum brake, disc brake, power assist and anti-lock brake systems
- Assess, diagnose, and service steering systems
- Assess, diagnose, and service suspension system

Course Topics:

- Procedures and failure analysis
- Diagnostic process
- Failure analysis
- Fuel delivery systems
- Internal combustion engines
- Gaskets and seals
- Vehicle emissions

VCC Education and Education Support Policies

There are a number of **Education** and **Education Support** policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

<http://www.vcc.ca/about/governance--policies/policies/>

To find out how this course transfers, visit the BC Transfer Guide at www.bctransferguide.ca.

FOR COMMITTEE USE ONLY

Approved by Curriculum Committee:	June 20, 2017	Approved by Education Council:	
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