



AUTO 1235: Brake Systems

EFFECTIVE DATE

DEPARTMENT

Automotive Service Technician
DESCRIPTION

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems. This course is part of the full-time Automotive Service Technician Foundation Program.

CREDITS

6.0

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

None

COREQUISITES

None

COURSE LEARNING OUTCOMES

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

- Service brake tubing and fittings
- Diagnose and service brake hydraulic systems
- Examine and service drum brake systems
- Service disc brake systems
- Inspect power assist systems
- Diagnose and adjust anti-lock brake system

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 46.74

Other: 103.26

INSTRUCTIONAL STRATEGIES

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

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

B-

EVALUATION PLAN

Type	Percentage	Assessment activity
Quizzes/Tests	31	Students are given multiple choice quizzes and tests throughout the course to assess their theoretical knowledge
Lab Work	69	Practical knowledge and skills are evaluated in the shop while students are working on training aids and customer vehicles.
Lab Work		

COURSE TOPICS

- Tubing and fittings
- Hydraulic systems
- Drum brakes
- Disc Brakes
- Power assist systems
- Anti-lock braking systems

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
V5T 4V5

Downtown campus

250 West Pender Street
Vancouver, B.C. Canada
V6B 1S9

Annacis Island campus

1608 Cliveden Avenue
Delta, B.C. Canada
V3M 6P1

604.871.7000

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Generated at: 8:57 pm on Apr. 19, 2021