



# AUTO 1236: Steering Systems

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## EFFECTIVE DATE

## DEPARTMENT

Automotive Service Technician  
**DESCRIPTION**

This course covers principles of operation, diagnosis, service, and repair of steering and passenger restraint systems. Topics include steering gears, power steering systems, passenger restraint systems, wheel alignment, and four wheel steering systems. This course is part of the full-time Automotive Service Technician Foundation Program.

## CREDITS

6.5

## 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:

- Describe the components of conventional and rack and pinion steering gears, and steering columns
- Describe the components of power steering and passenger restraint systems
- Inspect, diagnose, service, and repair steering gears
- Inspect, diagnose, service and repair steering column and linkage
- Inspect, diagnose, and service power steering systems
- Inspect, diagnose, and service passenger restraint systems
- Perform wheel alignments
- Describe four wheel steering systems

## PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

## HOURS

Lecture: 44.01

Other: 118.49

## 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	27	Students are given multiple choice quizzes and tests throughout the course to assess their theoretical knowledge
Lab Work	73	Practical knowledge and skills are evaluated in the shop while students are working on training aids and customer vehicles.
Lab Work		

## COURSE TOPICS

- Steering gears
- Steering column
- Steering linkage
- Power steering systems
- Passenger restrain systems
- Wheel alignment
- Four wheel steering 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>.

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### 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  
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