



vcc.ca

Course Name:

Electronic Systems 1

Effective Date:

May 2019

School/Centre:

Trades, Technology & Design

Department:

Heavy Mechanical Technology Diploma International(4305)

Banner Course Name:

Electronic Systems 1

Subject Code:

HMTD - Heavy Mechanical Technician

Course Number

2208

Year of Study

2nd Year Post-secondary

Credits:

1

Course Description:

Truck and Machine Electronic Control Systems: Theory. This course introduces students to electronic control systems.

Course Pre-Requisites (if applicable):

Admission to the Heavy Mechanical Technology program.

Course Co-requisites (if applicable):

PLAR (Prior Learning Assessment & Recognition)

No

Course Learning Outcomes (CLO):

Upon successful completion of this course, students will be able to:	
CLO #1	Describe differences between electrical and electronics.
CLO #2	Describe electronic systems and components.
CLO #3	Describe CAN data bus networks.
CLO #4	Perform basic data communication.
CLO #5	Use computers/ laptops, scanners, and scopes to scan, scope, and data log-on board computer systems and sensors on various trucks and equipment.

Instructional Strategies:

Instructional strategies include classroom lectures, demonstrations, group discussions, computer lab and hands-on practical work.

Evaluation and Grading

Grading System:

Percentages

Passing grade:

70%

Evaluation Plan:

Type Percentage	Brief description of assessment activity
Other 70	Theory- includes formative assessments, assignments, and a summative assessment.
Other 30	Practical- includes shop tasks, active participation and teamwork, workplace behavior, use of tools and equipment.

Hours by Learning Environment Type

Lecture, Seminar, Online

17.5

Lab, Clinical, Shop, Kitchen, Studio, Simulation

7.5

Practicum

Self Paced / Individual Learning

Course Topics

Course Topics:

1. Differences between electrical and electronics.
2. Electronic systems and components.
3. CAN data bus networks.
4. Basic data communication.
5. Computer systems and sensors on various trucks and equipment.

Program and course contents and descriptions, offerings and schedules are subject to change without notice.

Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

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 <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

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Downtown campus

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