



vcc.ca

Course Name:

Electrical Systems 1

Effective Date:

May 2019

School/Centre:

Trades, Technology & Design

Department:

Heavy Mechanical Technology Diploma International(4305)

Banner Course Name:

Electrical Systems 1

Subject Code:

HMTD - Heavy Mechanical Technician

Course Number

1205

Year of Study

1st Year Post-secondary

Credits:

1

Course Description:

Terminology, Concepts, Calculations, and Magnetic Theory. This course introduces students to electrical terminology, basic theory, concepts, circuit calculations, and magnetic theory.

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 Define electrical terminology.

CLO #2 Explain basic circuit concepts.

CLO #3 Perform circuit calculations.

CLO #4 Describe magnetic theory.

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 60	Theory- includes formative assessments, assignments, and a summative assessment.
Other 40	Practical- includes shop tasks, active participation and teamwork, workplace behavior, use of tools and equipment.

Hours by Learning Environment Type

Lecture, Seminar, Online

15

Lab, Clinical, Shop, Kitchen, Studio, Simulation

10

Practicum**Self Paced / Individual Learning****Course Topics**

Course Topics:
1. Electrical terminology.
2. Basic circuit concepts.
3. Circuit calculations.
4. Magnetic theory.

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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