

ELEC 1013: ELECTRICAL TRADE PRACTICES

Course outlines are reviewed annually as part of continual quality improvement. This course was last updated for the effective term below.

Effective Term

Winter 2021

Full Course Title

Electrical Trade Practices

Academic Level

Post Secondary

Subject Code

ELEC - PS Electrical Engineering

Course Number

1013

Grade Mode

Numeric

PLAR Applicable

Yes

Total Hours

42

Course Description

Students are introduced to the various hand tools and power tools that are used for a variety of electrical installations. Students perform installation procedures and wiring methods for electrical equipment and electrical devices found in residential applications. Electrical installation projects include lighting and receptacle circuits, appliance outlets, smoke detection and carbon monoxide detection devices. All wiring projects are completed in accordance with the Canadian Electrical Code.

Course Content

- Hand and power tools
- Electrical service panels
- Circuit breakers
- Fuses
- Outlet boxes
- Lighting fixtures
- Switching and receptacle devices
- Stove and clothes dryer outlets
- Ground fault and arc fault circuits
- Smoke and carbon monoxide detectors
- Testing, troubleshooting and repair
- Documents and documentation
- Canadian Electrical Code

Course Evaluation

The passing grade for this course is 50% unless otherwise noted below. The evaluation is comprised of:

- Assignments 40%
- Projects 40%
- Tests 20%

Tests/examinations/assignments must be written/submitted at the time specified. Requests for adjustments to that schedule must be made before the test/exam/assignment date to the faculty member. Failure to do so will result in a mark of "0", unless an illness/emergency can be proven with appropriate documentation at no cost to the College.

The passing grade for all courses is 50%, or letter grade of P (Pass) or S (Satisfactory) unless otherwise noted below. The passing weighted average for promotion through each semester of a program is 60% and is a requirement to graduate.

Academic Appeal

Students at Georgian College can appeal the following:

- A mark on an assignment, test, examination or work-integrated learning term
- Missing or incorrect assessment information on a grade report and/or transcript
- A charge of academic misconduct

Note: Students cannot appeal a final grade. It is the academic work that is appealable leading to the final grade i.e. final test, exam or assignment.

Refer to Academic Regulations 9.2 Academic Appeal for further details.

Course Learning Outcomes

Upon successful completion of this course, the student has reliably demonstrated the ability to:

1. determine the necessary tools and materials required for electrical installations on a residential jobsite;

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving
EES7: Application of research and information

Evaluation

Introduced
Reinforced

Upon successful completion of this course, the student has reliably demonstrated the ability to:

2. contribute to the organizing and updating of documents for electrical installation;

This learning outcome meets the following Essential Employability Skill(s):

EES1: Communication
EES6: Organization of information

Evaluation

Introduced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

3. operate electrical jobsite tools and equipment according to safe working practices;

This learning outcome meets the following Essential Employability Skill(s):

EES7: Application of research and information

Evaluation

Introduced
Reinforced

Upon successful completion of this course, the student has reliably demonstrated the ability to:

4. engage in residential electrical installations as per current legislation and regulations;

This learning outcome meets the following Essential Employability Skill(s):

EES9: Interaction and collaboration

Evaluation

Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

5. implement testing and problem-solving techniques to repair electrical faults;

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving

EES5: Critical thinking to solve problems

Evaluation

Introduced

Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

6. recognize the health and safety procedures required for various electrical jobsites.

This learning outcome meets the following Essential Employability Skill(s):

EES7: Application of research and information

EES11: Responsibility for actions

Evaluation

Reinforced

Assessed

Key: 30100