



Cardinal Leger Secondary School Construction Technology



Course Name: Construction Technology – Workplace Preparation
Course Code: TCJ 4E
Level: Grade 12
Teacher: Mr. Costigan
Course Fee: None

Prerequisite: TCJ 3E
Room: 127

Course Overview:

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology, and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

Curriculum Strands and Overall Expectations:

The overall and specific expectations for each course in the technological education curriculum are typically organized in four distinct but related strands. As students move up through the grades, the expectations within these strands will increase in complexity and depth.

Strands

Fundamentals: Students develop foundational knowledge and skills related to the design and fabrication of products or the provision of services in the particular broad-based technological subject area.

Skills: Students develop the technological skills required for responding to a variety of practical challenges.

Technology, the Environment, and Society: Students develop an understanding of the interrelationship between the technology or industry sector and the environment, and between the technology and various aspects of society. (In subject areas that relate to services, this strand is entitled Industry Practices, the Environment, and Society.)

Professional Practice and Career Opportunities: Students develop an understanding of health and safety standards in the industry, professional concerns and issues, and the Essential Skills and work habits valued in the sector, and explore career opportunities and the education and training required for them.



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Fundamentals - Overall Expectations

By the end of this course the student will:

- A1.** Assess the properties and applications of a variety of construction materials, tools, equipment, and processes;
- A2.** Demonstrate an understanding of building codes, regulations, and standards for construction projects;
- A3.** Use construction terminology correctly;
- A4.** Apply mathematical skills and scientific concepts in the planning and building of a variety of construction projects.

Skills – Design, Layout and Planning– Overall Expectations

By the end of this course the student will:

- B1.** Apply a design process and/or other problem-solving methods as appropriate when planning a variety of residential and/or light construction projects, and demonstrate an understanding of the design considerations for these projects;
- B2.** Create and interpret working drawings for residential and/or light commercial construction projects;
- B3.** Apply accurate technical data and relevant building codes, regulations, and standards when planning and developing construction projects;
- B4.** Plan and lay out systems for residential and/or light commercial buildings.

Skills – Fabrication, Assembly, and Finishing – Overall Expectations

By the end of this course the student will:

- C1.** Apply appropriate technical skills, including the safe use of the tools, equipment, and materials required to build construction projects;
- C2.** Apply safe and accurate techniques for building construction projects;
- C3.** Complete construction projects by correctly applying finishing materials and installing fixtures and devices.

Technology, the Environment, and Society – Overall Expectation

By the end of this course the student will:

- D1.** Demonstrate an understanding of the environmental effects of construction projects, and ways of reducing harmful effects;
- D2.** Demonstrate an understanding of how the construction industry affects society.

Professional Practice and Career Opportunities – Overall Expectations

By the end of this course the student will:

- E1.** Demonstrate an understanding of and comply with health and safety regulations and practices specific to the construction industry;
- E2.** Describe the organization and management of construction companies and the entrepreneurial skills needed to establish a successful construction business;
- E3.** Describe the skills and training required for careers in the construction industry.



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Evaluation:

Regular attendance plays an important role in the success of the student!

Term Work	70%
Knowledge and Understanding	25%
Thinking	20%
Communication	20%
Application	35%
Final Assessment	30%
Formal Examination	20%
Culminating Task	10%
Course Total	100%

Learning Skills and Work Habits

E= Excellent G=Good S=Satisfactory N= Needs Improvement

Responsibility	<ul style="list-style-type: none"> • Fulfills responsibility and commitments. • Takes responsibility for and manages own behavior.
Organization	<ul style="list-style-type: none"> • Devises and follows a plan and process for completing tasks. • Establishes priorities and manages time
Independent Work	<ul style="list-style-type: none"> • Independently monitors, assesses, and revises plans to complete tasks and meet goals. • Uses class time to complete tasks.
Collaboration	<ul style="list-style-type: none"> • Accepts various roles and an equitable share of work in a group. • Builds healthy peer-to-peer relationships.
Initiative	<ul style="list-style-type: none"> • Looks for and acts on new ideas and opportunities. • Approaches new tasks with a positive attitude.
Self-Regulation	<ul style="list-style-type: none"> • Sets own goals and monitors progress towards achieving them. • Seeks clarification or assistance when needed.

Missed/Late/Incomplete Assignments

It is the student's responsibility to address missed, late, or incomplete assignments. Students are expected to complete assignments and to adhere to assignment deadlines as follows:

Due Date	10% Penalty Zone	Closure Date
A due date is set by the teacher.	1 school day late – 3% 2 school days late – 6% 3 school days late – 10% Maximum penalty of 10%	Once the closure date has passed, work is considered incomplete and a mark of zero applies.