



Cardinal Leger Secondary School Construction Technology

Course Name: Custom Woodworking
Course Code: TWJ 4E
Level: Grade 12
Teacher: Mr. Costigan **Room:** 127
Prerequisite: Grade 11 Custom Woodworking
Course Fee: Project dependent

Course Overview:

This course focuses on advanced residential and more complex construction systems, as well as the introduction of heavy construction, related to commercial, industrial, and/or residential construction; advanced practical workplace applications; and the development of generic employment skills and independent learning skills. Students will examine the materials, processes, labour, tools, and equipment used in the construction industry; technical drawings; auxiliary systems; and landscaping. They will also study industry standards and building codes; consider health and safety issues; and explore careers, lifelong learning opportunities, and the impact of construction technology on society and the environment.

Curriculum Strands and Overall Expectations:

Strands

The overall and specific expectations for each course in the technological education program are organized in three distinct but related strands. While each strand is represented in all courses, not all parts of the definition of each strand may apply to all courses.

Theory and foundation. The key ideas about concepts, components and systems, materials, services, and products.

Skills and processes. The technological skills and processes required for responding to a variety of practical challenges.

Impact and consequences. Safety-related issues, career opportunities, and the implications of technology.

Overall Expectations

Theory and Foundation - By the end of this course, students will:

- apply the design process to develop solutions, products, processes, or services for a variety of complex construction renovation and landscaping projects;
- describe the properties of, and use where applicable, a variety of building and landscaping materials, techniques, and processes, including those involved in the production, assembly, and installation of prefabricated units and in renovation projects;
- describe a variety of construction technologies, materials and manufactured products, tools, and equipment used in construction projects;



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- identify the building codes, regulations, and standards applicable to construction, including those for electrical, mechanical, and structural systems.

Skills and Processes - By the end of this course, students will:

- apply the design process to a variety of construction projects;
- demonstrate an ability to use resources such as technical data, reports, charts, tables, and building codes, regulations, and standards;
- describe heavy construction systems in terms of predetermined criteria, type of construction, building use, and building codes, regulations, and standards;
- demonstrate an ability to use construction tools, materials, and equipment;
- demonstrate mathematical and estimation skills for a variety of construction projects;
- demonstrate the entrepreneurial, business, and management skills required in the construction industry.

Impact and Consequences - By the end of this course, students will:

- explain the effects of technological change in the construction industry on society and on the environment;
- apply appropriate health and safety legislation; general shop and site safety rules; and rules specific to the use of materials, tools, and equipment;
- describe careers in construction technology, identifying the skills, education, and training required for each;
- identify and describe the employability skills required and the need for lifelong learning 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.

Parent Signature: _____ Student Signature: _____