

Dufferin-Peel Catholic District School Board

St. Joseph S. S.

Course Outline

Department:	Technological Education
Course Title:	Construction Technology
Course Code:	TCJ 4C2
Course Type:	College
Grade:	12
Prerequisite:	Construction Technology, Grade 10 or 11
Credit Value:	2.0
Hours:	220 hrs

Ministry Guidelines:	Technological Education Guidelines The Ontario Curriculum Grade 11 and 12 Ministry of Education and Training
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Course Description:

This course focuses on residential and recreational **on site** construction. Students will learn about the tools, materials, equipment, and methods used in light construction. They will also estimate materials and labour costs and explore careers in the industry.

Tentative Classroom Activities:

- Safety
- Estimating
- Construction social environment
- On-site training
- Customer – contractor relations

Upon successful completion of the course, students will receive two (2) technological education credits.

Personal Supplies; Student is required to have **PPE**,s. (Personal Protection Equipment) Safety glasses, hard hat, safety boots, hearing protection, gloves, and etc.

Teacher: Mr. Daley

Revision Date: October 1, 2020

Assessment and Evaluation

Knowledge/Understanding	Quizzes & Tests	10%
Thinking	Written assignments	10%
Communication	Sketching & Drawing Oral Communication Self assessment & evaluation	10%
Application	Practical work	40%
Final Evaluation	Culminating activity (10%) Written exam (20%)	30%
Total		100%

The following table provides a summary of achievement in each percentage grade range and corresponding level of achievement:

<i>Percentage Grade Range</i>	<i>Achievement Level</i>	<i>Summary Description</i>
80-100 %	Level 4	A very high to outstanding level of achievement. Achievement is above the provincial standard.
70-79 %	Level 3	A high level of achievement. Achievement is at the provincial standard.
60-69 %	Level 2	A moderate level of achievement. Achievement is <i>below</i>, but approaching the provincial standard.
50-59 %	Level 1	A passable level of achievement. Achievement is <i>below</i> the provincial standard.
Below 50 %		Insufficient achievement of curriculum expectations. Credit will not be granted in this course.

Teachers, parents and students can be confident that students who are achieving a level 3 are well prepared for work in the next grade or the next course.

Teaching and Learning Strategies

A variety of teaching and learning strategies are used throughout this course including:

- classroom lessons
- collaborative and cooperative learning
- team or group brainstorming
- student teacher conferencing
- independent and collaborative research and testing
- independent study and writing
- individual and group presentations
- developing confidence to contribute to society
- the use of computer technology in the classroom

The teacher will provide all students with the information, resources, guidance, and special accommodations necessary to complete each task safely and successfully. Teachers should also provide opportunities for students to work independently and in groups. Career education, cooperative education and other workplace experiences will also be explored through discussion or exercises.

SPECIAL REQUIREMENTS

This is an intensely practical course. **Daily attendance and participation is vital!**

Safety is of utmost importance when working in the Construction shop. Safety glasses and proper clothing must be worn at all times.

Course Units

UNIT # 1. (SAFETY – hand tool project)

- Dressing stock - notes
- Quiz – Dressing stock
- Shop safety assignment
- Measurement (Imperial & Metric) & Layout tools assignment
- Test – Dressing stock, shop safety, measurement, layout tools
- Hand tools (Power)
 - Hand planes
 - Handsaws
- Quiz – Hand planes & Handsaws

UNIT # 2. (PERSONAL PROJECT – teacher’s choice)

- Wood joints
- Woodworking machines
Table saw / Radial Arm saw assignment
Jointer / Thickness planer assignment
- Test – Table saw, RAS, Jointer, Thickness planer
- Power tools
- Quiz - power tools

UNIT # 3. (SCHOOL & COMMUNITY PROJECTS)

- Footings & foundations
- Floor systems assignment
- Wall framing systems assignment
- Quiz – floor systems, wall framing systems
- Quiz – building construction terminology

UNIT # 4. (PLUMBING AND ELECTRICAL CONNECTIONS)

- Plumbing assignment
- Electrical wiring assignment
- Quiz – plumbing, electrical wiring

FINAL ASSESSMENT & EVALUATION

- Culminating Activity
- Written Exam