



**Glendale Secondary School**  
**Technology Course Outline 2015/2016**  
**Construction Engineering Technology, Grade 11, TCJ3C**



**TEACHER:** Mr. D. Forster

**PREREQUISITE:**

**HOURS:** 110

**CREDIT VALUE:** 1

**DEPARTMENT HEAD:** Ms. K. Ciprietti

**REQUIRED MATERIALS:** 3 ring binder, 3 hole lined paper, pencil(s)

**GUIDELINE:** 2009 The Ontario Curriculum, Grades 11 and 12 Technological Education

**COURSE DESCRIPTION:**

TCJ3C Construction Engineering Technology, Grade 11, College Preparation

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field.

*List of Strands and Overall Expectations in each Strand*

**A. Technological Fundamentals**

- A1.** demonstrate an understanding of construction materials, processes, and components;
- A2.** describe the building codes, regulations, and standards that govern construction projects;
- A3.** demonstrate an understanding of the systems in a residential building;
- A4.** demonstrate an understanding of design considerations for residential buildings;
- A5.** use construction terminology correctly.

**B. Design, Layout, and Planning skills**

- B1.** apply a design process and other problem-solving processes and techniques as appropriate to develop solutions for construction problems or challenges;
- B2.** create and use working drawings for a variety of residential construction projects;
- B3.** determine, use, and communicate accurate technical data in the design of construction projects;
- B4.** use the mathematical skills required in designing, laying out, and preparing estimates for construction projects.

**C. Fabrication, Assembly, and Finishing skills**

- C1.** demonstrate appropriate technical skills, including the safe use of construction tools, equipment, and materials;

- C2. demonstrate safe and accurate building techniques;
- C3. correctly apply various finishes to complete residential construction projects.

#### **D. Technology, The Environment, and Society**

- D1. demonstrate an understanding of the environmental effects of construction projects, and ways of reducing harmful effects;
- D2. describe how society and the construction industry affect each other.

#### **E. Professional Practice and Career Opportunities**

- E1. demonstrate an understanding of and comply with health and safety regulations and practices specific to the construction industry;
- E2. describe career opportunities in the construction industry, and the importance of lifelong learning for these careers.

(Curriculum documents, with all overall and specific expectations are available at: <http://www.edu.gov.on.ca/eng/curriculum/secondary/>)

***The primary purpose of assessment and evaluation is to improve student learning***

#### **ASSESSMENT**

The process of assessing student learning is continuous and on-going. Teachers use information gathered through assessments to provide feedback for students, to guide instruction and develop individual learning goals for students. This is assessment **for** learning. Students use this feedback to continuously improve their achievement and set individual learning goals. This is assessment **as** learning. Information from assessments informs the teacher's professional judgment, but is not used in determining the student's level of achievement.

#### **EVALUATION**

Evaluation is the process of determining a level of student achievement of the Overall Expectations for a course, which is recorded as a mid-term or final grade on a report card.

Students will be given numerous and varied opportunities to demonstrate their achievement of the Overall Expectations across the four categories of achievement (Knowledge & Understanding, Thinking, Communication and Application). Evidence of student achievement of the Overall Expectations is collected over time from three different sources – observations, conversations and student products.

To be successful students **must demonstrate achievement of EACH of the Overall Expectations** for the course. If a student is missing evidence of achievement of one or more of the Overall Expectations then a lower limit will be determined by the teacher.

In determining a report card grade teachers use their professional judgment to interpret the evidence of student achievement which reflects the student's most consistent level of achievement with special considerations given to the more recent evidence.

The final grade is determined by the following breakdown:

**70 %** - evaluations made at the end of units throughout the semester.

**30%** - final demonstrations of learning (culminating activities and/or final examinations)

## **REPORT CARDS**

Student progress is reported at 3 times during the semester.

**Interim Report** – October and March. Reports on student Learning Skills and Work Habits with next steps for improvement.

**Mid-term Report Card** – November and April. Reports on student achievement of the Overall Expectations to date. **Incomplete achievement** is reflected on Mid-term Report Cards, but replaced when learning has been demonstrated.

**Final Report Card** – February and July. Reports on student achievement of all of the Overall Expectations.

## **ACADEMIC HONESTY**

Students are responsible for being academically honest in all aspects of their schoolwork. Academic dishonesty includes a variety of behaviours including cheating, plagiarism, facilitating or aiding academic dishonesty, and the unauthorized access or manipulating of student records, work and computer programs. Such behaviours impede the learning process and threaten the educational environment for all students. Intentional academic dishonesty will result in disciplinary consequences. Teachers and parents should support students in striving for excellence and producing work with integrity.

## **ATTENDANCE AND LEARNING SKILLS**

There is a direct link between good attendance and success at school. Students are expected to attend classes regularly and on time. Evidence of student achievement is gathered during classes through observations and learning conversations.

Learning Skills play an important role in a student's level of achievement. Students will be assessed on the following learning skills: responsibility, works independently, collaboration, initiative, and self-regulation.

## **CELL PHONES/PERSONAL ELECTRONIC DEVICES**

Teachers will determine when personal electronic devices, including cell phones, will be used as instructional tools/supports. At other times these devices (with the exception of electronic translators) are not to be used and must be turned off and be stored away. Consequences for inappropriate use of these devices may include removal of the device from the learning environment.

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## **SCHOOL WIDE SUPPORTS**

- ☺ Student Support Team (formerly known as Learning Resource)
  - In-class help
  - Test and exam support
  - Alternate learning environment
- ☺ English Language Learner Support Team
  - Lunch-time help
  - Test and exam support
- ☺ Math lunch-time help
- ☺ Math Homework Help – on-line support
- ☺ Information via school website @ <http://schools.hwdsb.on.ca/glendale/>
- ☺ School wide access to password protected wireless network

- Access to on-line resources

- ☺ Literacy Coaching

- ☺ Literacy @ Lunch

- ☺ Learning Commons @ Lunch

- ☺ Paper and electronic calendars

- ☺ Teacher/department Lunch-time/before/after school help



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**DEPARTMENT HEAD:** Ms. K. Ciprietti

**TEXTBOOK:** No Textbooks are to be taken home

**REQUIRED MATERIALS:** 3 Ring Binder, paper, pencil

**GUIDELINE:** Name of the Ministry Curriculum Policy Document

The text will be provided without charge. The student is responsible for returning the book in reasonable condition. The student will be charged for lost or damaged books. **Textbook replacement cost: 110.00**

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I am aware of the course expectations and the policies and supports put in place for the student to be successful.

**Student's Name:** \_\_\_\_\_

**Teacher's Name:** Mr. D. Fortser

**Contact Number:** 905-560-7343 ext.

**Department Head Name:** Ms. K. Ciprietti

**Contact Number:** 905-560-7343 ext. 259

Parent/ Guardian Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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