

	Grade 10 Construction Technology and the Skilled Trades TCJ2O	Inspired Education. Inspiring Students.
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Teacher: ****Teacher Name****

Prerequisite Course: None

Description and Overall Expectations: This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.

Construction Technology Fundamentals: describe the components and systems of buildings, the properties of various building materials, and the processes in which those materials are used; demonstrate an understanding of the safe and correct use of construction tools, equipment, and techniques; use correct terminology to describe building components and construction materials, tools, equipment, and processes.

Design, Layout, and Planning Skills: design construction projects, individually or in small groups, applying a design process to plan and develop the projects and other problem-solving processes to address various related problems and challenges; use drawings to represent design ideas and solutions to technological challenges, and interpret drawings accurately when working on construction projects; apply the mathematical skills required in the planning and building of construction projects.

Fabrication, Assembly, and Finishing Skills: use tools, equipment, and techniques correctly and safely when preparing materials for a project; use fabrication and assembly techniques safely, accurately, and in the correct sequence; prepare surfaces and apply finishing products, trim, and hardware correctly and safely.

Technology, Society, and the Environment: demonstrate an understanding of ways in which the construction industry affects the environment; describe ways in which the construction industry affects society.

Professional Practice and Career Opportunities: identify and follow health and safety regulations, standards, and procedures related to the construction industry; identify career opportunities in the construction industry, and describe the training required for these careers.

Course Resources: [Key resource\(s\) along with supplementary resources / digital tools and sites / passwords; include replacement cost for resources if lost/damaged.](#)

Catholic Graduate Expectations: Our goal for all students is to experience an education based on our Catholic Graduate Expectations. (<http://www.iceont.ca>) We work in community to develop graduates that are:

- Discerning Believers Formed in the Catholic Faith Community
- Effective Communicators
- Reflective and Creative Thinkers
- Self-Directed, Responsible, Life-Long Learners
- Collaborative Contributors
- Caring Family Members
- Responsible Citizens

Assessment, Evaluation and Reporting: The primary purpose of assessment and evaluation is to improve student learning. Students will understand what is expected of them, using learning goals, and success criteria, based on the overall expectations. Feedback (self, peer, teacher) supports learning, and plays a critical role in academic achievement and success.

The development of learning skills and work habits is a key indicator of future success. The following learning skills and work habits will be developed, assessed, and reported during this course:

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| 1. Responsibility | fulfills responsibilities and commitments (<i>e.g. accepts and acts on feedback</i>) |
| 2. Organization | manages time to complete tasks and achieve goals (<i>e.g. meets goals, on time</i>) |
| 3. Independent work | uses class time appropriately to complete tasks (<i>e.g. monitors own learning</i>) |
| 4. Collaboration | works with others, promotes critical thinking (<i>e.g. provides feedback to peers</i>) |
| 5. Initiative | demonstrates curiosity and an interest in learning (<i>e.g. sets high goals</i>) |
| 6. Self-Regulation | sets goals, monitors progress towards achieving goals (<i>e.g. sets, reflects goals</i>) |

Group work supports collaboration, an important 21st century skill. This will be assessed only as a learning skill. Homework may also be assessed as a learning skill. Evaluation completed in class will be based only on individual student work. Regular attendance is important to support group work, various forms of feedback, and to allow students to demonstrate evidence of their learning. Students are responsible for providing evidence of their own learning (with references where required), in class, within given timelines. Next steps in response to academic integrity issues, such as lack of work completion, plagiarism, or other forms of cheating, range from providing alternate opportunities, to a deduction of marks.

The achievement chart identifies four levels, based on achievement of the overall expectations:

Level 1	achievement falls below the provincial standard	(50-59%)
Level 2	achievement approaches the provincial standard	(60-69%)
Level 3	achievement is at the provincial standard	(70-79%)
Level 4	achievement surpasses the provincial standard	(80-100%)

The report card grade will be based on evidence of student performance, including observations, conversations and student products. Consideration will be given to more recent evidence (skill development) and the most consistent level of achievement.

Mark Breakdown:

Term Work (70%) will include a variety of assessment tasks designed to demonstrate students' development in their knowledge and understanding, thinking and inquiry, communication and application, of all overall expectations.

Summative evaluation (30%) takes place towards the end of the semester, is completed in class, and provides the final opportunity for students to demonstrate what they know, and the skills they have learned, based on the overall expectations. In Construction Technology TCJ2O, the summative evaluation will consist of a rich summative assessment task (30%).

Awarding of Course Credit: Students who demonstrate evidence of achievement of overall expectations, **and** earn a mark of 50% or greater, will earn one credit for the course with the following exception:

Students who do not complete their summative evaluation (exam and/or end of year summative task) will not earn their credit regardless of their mark.

Student and Parent/Guardian Acknowledgement

We have read the above course outline and are aware of the student responsibilities to attend class on a regular basis and to provide evidence of learning within the established timelines.

Student's Name (print): _____ Student's Signature: _____

Parent/Guardian Name (print): _____ Parent/Guardian Signature: _____