

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: Carpentry 1

CODE NO. : CCT102 **SEMESTER:** 1

PROGRAM: Construction Carpentry Techniques

AUTHOR: Sam Spadafora

DATE: Sept 09 **PREVIOUS OUTLINE DATED:**

APPROVED:

“Corey Meunier”
CHAIR

DATE

TOTAL CREDITS: 4

PREREQUISITE(S): none

HOURS/WEEK: 4

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(705) 759-2554, Ext. 2610

I. COURSE DESCRIPTION:

This course will introduce elements of Carpentry. You will learn about the carpentry trade including relevant professional associations, considerable time will be spent on health and safety aspects that are relevant to the trade and those that will keep you and others safe on the job site.

You will be introduced to common Carpentry materials and equipment such as, wood and lumbar, joints and fasteners, nails and woodscrews, drill bits and scaffolding.

The course will conclude with a building activity designed to incorporate the lessons learned in the course to a relevant structure.

II. LEARNING OUTCOMES:

1. Describe and demonstrate methods and procedures for the use of hand, power and stationary tools and equipment according to industry standards and practices.
2. Adhere to applicable health and safety related legislation and practices.
3. Assist in preparing construction specifications, material and cost estimates.
4. Demonstrate a recognition of the necessity and value of life-long learning in the field.
5. Apply sound environmental practices and policies in civil engineering and construction projects.

III. REQUIRED RESOURCES/TEXTS/MATERIALS:

1. **Personal Protective Equipment (PPE) and Tools** will be required during classes to be conducted in a shop environment.

PPE and Tools required are:

- a) CSA Certified Hard Hat
- b) CSA Certified (Green Patch) Work Boots
- c) CSA Certified Safety Glasses
- d) Work Gloves
- e) Carpenters Work Pouch
- f) 25 foot Measuring Tape
- g) Carpenters Hammer
- h) Speed Square
- i) Carpenters' Pencil

2. **Text Books required are:**

- a) Carpentry Fundamentals (Level 1)
- b) Construction Health and Safety Manual (2008 Edition)

IV. EVALUATION PROCESS/GRADING SYSTEM:

Assignments and tests (7and 6)	45%
Activities (4)	40%
Attendance	15%
Total	100%

The following semester grades will be assigned to students:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	

NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

V. SPECIAL NOTES:

Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

Substitute course information is available in the Registrar's office.

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade “C”, (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations. Announcements, news, the academic calendar of events, class cancellations, your learning management system (LMS), and much more are also accessible through the student portal. Go to <https://my.saultcollege.ca>.

Electronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

If a student is unable to write a test or exam at the scheduled time the following procedure shall apply:

- The student shall provide the professor with advance notice (in writing) of the need to miss the test
- The student shall provide documentation as to the reason for the absence and the make-up will be at the discretion of the professor.
- Upon return the student is responsible to make arrangements for the writing of the test. This arrangement shall be made prior to the next schedule class.
- In the event of an emergency, the student shall telephone the professor as soon as possible at 759-2554, to notify of the absence. If the professor is not available, the college has a 24 hour voice mail system.
- In the event of a test missed due to emergency, the student shall provide documentation from a professional such as doctor or lawyer.

All late assignments (without documentation) will receive a maximum grade of C (60%).

VII. TOPIC OUTLINE

Outcome	Topic and Content	Reading	Week
4,5	1. Trade Background <ul style="list-style-type: none"> • Role of a carpenter • Carpenters' Union • Home Builders' Associations • Construction Associations 	Hand outs	1
2,4,5	2. Health and Safety <ul style="list-style-type: none"> • Personal Protective Equipment • WHMIS Labels and Data sheets <ol style="list-style-type: none"> (1) Safe handling and disposal Techniques (2) Reporting hazards to supervisor • Jobsite Safety <ol style="list-style-type: none"> (1) Appropriate measures for lifting (2) Use of electrical protection and safety devices on tools and equipment (3) Good housekeeping practices • Fire Safety practices in the workplace <ol style="list-style-type: none"> (1) Select appropriate fire extinguishers for class A, B, C and D. 	Handout Construction H&S 2008	2,3

Assignment #1

- Unit questions on Health and Safety.

Test #1 - Health and Safety

3,4,5	<p>3. Types of Materials</p> <ul style="list-style-type: none"> • Types of panel stock (plywood, OSB, waferboard, MDF) use and application. • Types of sealants, abrasives and preservatives, uses and applications • Interior and exterior finishing material in both Residential and Commercial construction, uses and applications. 	Carpentry Fund Level 1	4
	<p>Assignment #2</p> <ul style="list-style-type: none"> - Unit questions on Types of Materials. 		
	Test #2 - Types of Materials		
3,4,5	<p>4. Wood/Lumber</p> <ul style="list-style-type: none"> • Characteristics of wood and lumber according to species and grade. • Different methods used to saw and cut trees into lumber. • Proper methods for safely handling and storing lumber. 	Carpentry Fund Level 1	5,6
	<p>Assignment #3</p> <ul style="list-style-type: none"> - Unit questions on Wood/Lumber 		
	Test #3 - Wood/Lumber		
1, 2,3,5	<p>5. Joints/Fasteners</p> <ul style="list-style-type: none"> • Types of wood joints • Appropriate fasteners, adhesives and glues 	Carpentry Fund Level 1	7,8,
	<p>Assignment #4</p> <ul style="list-style-type: none"> - Unit questions on Joints/Fasteners 		
	Test #4 - Joints and Fasteners		
	Activity #1- Constructing basic wood joints		
2,3,5	<p>6. Nails and Woodscrews</p> <p>Assignment #5</p> <ul style="list-style-type: none"> - Nails and screws 	Carpentry Fund Level 1	9
	Test #5 - Nails and screws		
2,3,5	<p>7. Drill Bits</p> <ul style="list-style-type: none"> • Types of drill bits 	Handout	9
	Test #6 - Drill bites		
1,2,3	<p>8. Stick building a Scaffold</p> <p>8.1 Activity #2 – Build a Scaffold according to the provided drawings (Groups)</p>	Handout	10,11, 12

3,5	9. Material Estimating	Handout	13
	9.1 Activity #3-Calculate material quantity and costs for the completion of a room		
1,2,3	10. Designing and Building a Ladder		14,15
	10.1. Design a Wooden Step Ladder		
	10.2. Activity #4 - Once the Design has been approved students will be assigned into groups. Each group will build a ladder according to the design.		