



## COURSE OUTLINE: CCT0101 - RIGGING AND HOISTING

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Approved: Martha Irwin, Chair, Community Services and Interdisciplinary Studies

<b>Course Code: Title</b>	CCT0101: RIGGING HOISTING MATERIAL EQUIP HANDLING
<b>Program Number: Name</b>	1120: COMMUNITY INTEGRATN
<b>Department:</b>	C.I.C.E.
<b>Semesters/Terms:</b>	18F
<b>Course Description:</b>	This course will provide the student with basic knowledge of modern, effective rigging, hoisting and material handling practices. The student will learn technical principles and concepts of load handling, as well as industry specific health & safety regulations that apply in the Province of Ontario.
<b>Total Credits:</b>	4
<b>Hours/Week:</b>	4
<b>Total Hours:</b>	60
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Essential Employability Skills (EES) addressed in this course:</b>	<p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p>
<b>Course Evaluation:</b>	Passing Grade: 50%, D
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	<p>Grade            Definition Grade Point Equivalent            A+ 90 - 100% 4.00            A 80 - 89%            B 70 - 79% 3.00            C 60 - 69% 2.00            D 50 -59% 1.00            F (Fail)49% and below 0.00</p> <p>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            W Student has withdrawn from the course without academic penalty.</p>



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**Books and Required Resources:**

Rigging Fundamentals Trainee Guide by Prentice Hall  
 Publisher: Prentice Hall Edition: second edition  
 ISBN: 9780132154567

Ontario Occupational Health & Safety Consolidated Version by Greenspan  
 ISBN: 9780779878444

Construction Health and Safety Manual by Infrastructure Health and Safety  
 Edition: 2013  
 ISBN: 9780919465541

**Course Outcomes and Learning Objectives:**

Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes:

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
Describe and demonstrate the use of material handling tools, equipment and personal protective equipment according to the manufacturer and Occupational Health and Safety Standards.	Introduction to construction related PPE (Personal Protective Equipment) - proper use & application
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
Describe the methods and procedures required for material handling and equipment load and unload operations according to the manufacturer and Occupational Health and Safety Standards	Examine The Ontario Occupational Health & Safety Act & Regulations for Construction Projects, and understand how they apply to workers on construction projects
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
Describe the methods and procedures required for moving material around the job site according to the manufacturer and Occupational Health & Safety Standards	Identify, describe & understand material handling equipment and its safe use according to manufacturer's specifications and the Occupational Health and Safety Act. This will include equipment such as slings, (synthetic and wire rope), cables, chains, shackles, load binders, lifting clamps and hoists. ? Describe the selection and use of rigging & hoisting equipment for the work application. ? Describe load/unload procedure signals required for co-workers communication. ? Illustrate the documentation related to a load/unload procedure (i.e. the lift plan).
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
Describe the basics of centre of gravity and load distribution as they apply to loading, moving & hoisting of all materials on the job	Define & apply the principles of centre of gravity and load management and apply them when selecting the appropriate material handling equipment for moving materials on a job site.



site according to industry standards, regulations and Occupational Health & Safety Standards.

Describe daily inspection practices for equipment used in the movement of materials.

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight	Course Outcome Assessed
Attendance	15%	
Practical Tests	40%	
Tests and Assignments	45%	

**CICE Modifications:**

**Preparation and Participation**

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.

**A.** Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and must be discussed with and agreed upon by the instructor.

**B. Tests may be modified in the following ways:**

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

**C. Tests will be written in CICE office with assistance from a Learning Specialist.**

***The Learning Specialist may:***

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

**D. Assignments may be modified in the following ways:**

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.



***The Learning Specialist may:***

1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

**E. Evaluation:**

Is reflective of modified learning outcomes.

**NOTE:** Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

**Date:**

August 27, 2018

Please refer to the course outline addendum on the Learning Management System for further information.

