



# COURSE OUTLINE

## RIG0101

Prepared: Neal Moss    Approved:

<b>Course Code: Title</b>	RIG0101: RIGGING AND HOISTING										
<b>Program Number: Name</b>	1120: COMMUNITY INTEGRATN										
<b>Department:</b>	C.I.C.E.										
<b>Semester/Term:</b>	17F										
<b>Course Description:</b>	This course is designed to provide the student with the knowledge and understanding of correct lifting and hoisting procedures and the safe use of all equipment.										
<b>Total Credits:</b>	2										
<b>Hours/Week:</b>	2										
<b>Total Hours:</b>	30										
<b>Essential Employability Skills (EES):</b>	<p>#3. Execute mathematical operations accurately.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#6. Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>#7. Analyze, evaluate, and apply relevant information from a variety of sources.</p>										
<b>General Education Themes:</b>	Science and Technology										
<b>Course Evaluation:</b>	Passing Grade: 50%, D										
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	Due to the Safety concerns of this course, students who do not attend a minimum of 80% (12 classes) of the scheduled classes will be given an F grade for this course.										
<b>Evaluation Process and Grading System:</b>	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>Attendance</td> <td>15%</td> </tr> <tr> <td>final exam</td> <td>10%</td> </tr> <tr> <td>labs</td> <td>30%</td> </tr> <tr> <td>Tests</td> <td>45%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	Attendance	15%	final exam	10%	labs	30%	Tests	45%
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<b>Books and Required Resources:</b>	<p>BC Millwright Manual (chapter 7)</p> <p>Publisher: Queen's Printer Government Publication Services</p>										



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ISBN: 0-7718-9473-2

### 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:

#### Course Outcome 1.

List, describe, and comply with all safety rules and procedures pertaining to lifting, hoisting and moving machinery as outlined in the OH&S ACT.

#### Learning Objectives 1.

Potential Elements of the Performance:

- List five safety rules
- Describe the steps taken to complete one lifting procedure
- Demonstrate a good comprehension of lifting techniques

#### Course Outcome 2.

Select, Inspect and Maintain hoist and rigging equipment.

#### Learning Objectives 2.

Potential Elements of the Performance:

- Describe the construction of wire rope
- Name three types of slings
- List the key points for inspecting chains
- Describe the difference between a Spreader bar and an Equalizer beam
- Describe how to inspect and measure a hook
- Explain the main reason to inspect eye bolts, shackles and turn buckles
- Explain why you would select a block and winch.
- Describe the difference between a chain fall and a come-along

#### Course Outcome 3.



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Describe the principles and operation of hoists both overhead and mobile.

### **Learning Objectives 3.**

Potential Elements of the Performance:

- Describe the major differences between overhead and mobile cranes
- Explain the advantages and disadvantages of both styles of hoists

### **Course Outcome 4.**

Demonstrate signals to ensure that correct and safe hoisting operations are performed.

### **Learning Objectives 4.**

Potential Elements of the Performance:

- Identify each hand signal
- Demonstrate each signal
- Explain the procedure for signaling via radio

### **Course Outcome 5.**

Demonstrate the ability to tie common knots used in rigging.

### **Learning Objectives 5.**

Potential Elements of the Performance:

- Square or reef knot
- Clove hitch
- Timber hitch
- Bowline
- Bowline on a bite
- Double bowline

### **Course Outcome 6.**



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Demonstrate methods of rigging, hoisting and moving machinery and equipment safely into position.

### Learning Objectives 6.

Potential Elements of the Performance:

- Explain the choice of rigging
- Describe the hoist selection
- Safely move a load

#### 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.**



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***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:**

Wednesday, September 6, 2017

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