



MASTER COURSE OUTLINE

A. CARP 2215 Steel Frame Assembly and Construction Site Safety

B. COURSE DESCRIPTION:

This course will introduce students to the construction and erection of a steel frame building. Students will examine the various parts and assembly procedure used in steel frame erection. Students will identify possible hazards or OSHA violations. This course is part of the Carpentry program.

(1 Cr – 1 lect, 0 lab)

C. *Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- Identify possible OSHA violations
- The process of erection steel and the parts used
- Correct crane signaling, rigging and hoisting
- Proper PPE

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
<u>*Critical Thinking</u>	Students will be able to gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. solve problems independently through previously learned skills.
<u>CS</u>	examine job sites for hazards and possible OSHA Violations.	1. visit a construction site and record all possible hazards and violations. 2. list how to correct or control the hazards.

<u>CS</u>	what PPE is needed on different job setting to create safe work area.	<ol style="list-style-type: none"> 1. demonstrate how to properly wear and care for PPE. 2. demonstrate safe work habits and properly use safety equipment.
<u>CS</u>	perform crane signaling skills.	<ol style="list-style-type: none"> 1. correctly signal a crane using hand signals.
<u>CS</u>	steel material handling and erecting.	<ol style="list-style-type: none"> 1. work with steel building components. 2. correctly identify steel component parts.

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

H. COURSE CODING INFORMATION:

Course Code S/Class Maximum 28; Letter Grade

Revision date: 02/19/16; 04/02/24; 12/02/25

AASC Approval date: 04/20/16; 04/16/24; 01/20/26

*These five MnTC Goals have been identified as Riverland Community College Core Themes. Every course in the Riverland Community College curriculum shall meet outcomes from one of these themes.

**These five MnTC Goals have been identified as Riverland Community College Disciplines. Riverland's MnTC courses also shall meet outcomes from a Discipline Area.

NOTE: The Minnesota Transfer Curriculum "10 Goal Areas of Emphasis" are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

*Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

**Riverland Community College Discipline Areas	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

Riverland