

**Course Code:** CCA 113

**Course Title:** Scaffolding

**Department:** Applied Sciences and Technologies

**Effective Date:** Summer 2026

**PCS Code:** 1.2 - Occupational/Technical Instruction

**CIP Code:** 46.0201

**Repeatability:** 0

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## Credit Hours

**Catalog Notation:** 1-2-2

**Credit Hour Distribution:**

Lecture: 1

Lab: 2

Clinical: 0

**Total: 2**

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## General Course Information

### Catalog Description

Specific procedures for erecting frame scaffolds, tube and clamp scaffolds, and system scaffolds, with emphasis on OSHA safety regulations.

### General Course Objectives

Students will learn the specific procedures for erecting frame scaffolds, tube and clamp scaffolds, and system scaffolds, while emphasizing OSHA safety regulations.

### Minimum Placement Levels

English	Reading	Math
Placement out of ENG 098	Placement out of CCS 098	Placement into MAT 060

### Prerequisites

Credit in CCA 111 and CCA 112

Current First Aid and CPR card

### Methods of Evaluation

The minimum methods of evaluation include: 4 written exams, quizzes, 3 lab projects, and final written and practical exam.

### Instructional Materials and Additional Supplies

Scaffolding Erection, Carpenters International Training Fund (2012). Las Vegas, Nevada: Mosaic.

## Course Content

### General Learning Outcomes (GLOs)

- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

### Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Tube and Clamp Scaffolding	<ol style="list-style-type: none"> <li>1. Demonstrate knowledge and understanding of OSHA 1926.</li> <li>2. Locate and identify regulations covering erection, use, and dismantling of the three types of scaffolding.</li> <li>3. Identify major parts and accessories for the three types.</li> <li>4. Calculate load rating for all three types.</li> <li>5. Select proper bracing ties or guying for tube and clamp and systems scaffolds.</li> <li>6. Identify and demonstrate the function and use of various personal protection devices and clothing worn by a scaffold erector.</li> <li>7. Inspect parts for the three scaffold systems.</li> <li>8. Assemble and disassemble tube and clamp and systems scaffolds.</li> </ol>	9	18	0
Systems and Frame Scaffolds	<ol style="list-style-type: none"> <li>1. Identify parts of a frame scaffold, mobile scaffold, and parts used with putlogs.</li> <li>2. Calculate platform loads, leg loads, and still sizes for a two-bay scaffold.</li> <li>3. Develop a parts list when given blueprints.</li> <li>4. Erect two separate three-tier frame scaffolds bridged together with 8-foot putlogs.</li> <li>5. Erect a three-tier mobile scaffold.</li> </ol>	4	12	0
Exams	<ol style="list-style-type: none"> <li>1. Successfully complete required exams.</li> </ol>	2	0	0

#### Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
15	30	0