# General Carpentry I Course No. 17002 Credit: 1.0

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes:Construction and Design (46.0000) - Construction Strand; Business Management and Entrepreneurship (52.0799)

Course Description:

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 0: The following competency is to be taught within ALL technical level courses offered in your school’s approved pathway

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 0.1 | Demonstrate an understanding of industry standards for personal safety including the safe use of tools, equipment, and hazardous materials.  |  |

## Benchmark 1: Orientation and work based skills

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Introduction to Construction Industry & Skilled Trades |  |
| 1.2 | Interpret information and follow instructions presented in both verbal and written form. |  |
| 1.3 | Create and complete various written documents used in industrial trades. |  |
| 1.4 | Understand and respond to performance reviews. |  |
| 1.5 | Demonstrate critical thinking skills and the ability to solve problems using those skills. |  |
| 1.6 | Define effective relationship skills. |  |
| 1.7 | Demonstrate a working knowledge of workplace issues such as sexual harassment, stress, and substance abuse. |  |

## Benchmark 2: Safety in construction

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Identify causes of accidents and the impact of accident costs. |  |
| 2.2 | Follow safe behavior procedures on and around ladders, scaffolds, and stairs.  |  |
| 2.3 | Describe fire prevention and firefighting techniques. |  |
| 2.4 | Understand basic first aid response. |  |
| 2.5 | Explain the purpose of OSHA and how it promotes safety on the job. |  |

## Benchmark 3: Foundational Knowledge

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Demonstrate Blueprint reading skills including the interpretation of plans, elevations, schedules, sections and details. |  |
| 3.2 | Estimate building materials and cost for a project. |  |
| 3.3 | Research and identity applicable building codes and permits. |  |
| 3.4 | Add, subtract, multiply, and divide whole numbers, fractions, decimals and percentages. |  |
| 3.5 | Demonstrate conversion skills for decimals and fractions. |  |
| 3.6 | Recognize and perform calculations using metric units of length, weight, volume and temperature. |  |

## Benchmark 4: Hand and Power tools

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Demonstrate a working knowledge of tools, skills, materials vocabulary, and construction methods for all types of construction including residential and commercial. |  |
| 4.2 | Safely utilize and maintain hand and power tools used in the construction industry. |  |
| 4.3 | Set up and utilize leveling instruments. |  |

## Benchmark 5: flooring systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Research or complete a foundation system. |  |
| 5.2 | Identify and install various types of floor systems to include layout, bridging, joists, and subflooring |  |
| 5.3 | Install a single floor system using tongue-and-groove plywood/OSB |  |

## Benchmark 6: Wall Systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 6.1 | Research and identify different framing types and systems |  |
| 6.2 | Lay out, construct and erect walls and partitions. |  |
| 6.3 | Lay out, cut and install ceiling joists |  |

## Benchmark 7: Roof systems

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 7.1 | Identify different styles of roofs and their layouts |  |
| 7.2 | Measure and calculate roof area to determine material needs |  |
| 7.3 | Layout and construct a frame roof and apply sheathing. |  |
| 7.4 | Apply roof coverings. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

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