

Carpentry I (2023)

The following competency is to be taught within ALL technical level courses offered in your school's approved pathway [0](#)

1 Demonstrate an understanding of industry standards for personal safety including the safe use of tools, equipment, and hazardous materials. [0.1](#)

Benchmark 1 [1](#)

1 Demonstrate a working knowledge of tools, skills, materials vocabulary and construction methods for all types of construction including residential and commercial. [1.1](#)

2 Safely utilize and maintain hand and power tools used in the construction industry. [1.2](#)

3 Demonstrate Blueprint reading skills including the interpretation of plans, elevations, schedules, sections and details. [1.3](#)

4 Estimate building materials and cost for a project. [1.4](#)

5 Set up and utilize leveling instruments. [1.5](#)

6 Install sill seal and sell plate to the foundation. [1.6](#)

7 Describe the need for, and install thermal and sound insulation and vapor barriers. [1.7](#)

8 Identify and install various types of floor systems to include: layout, bridging, joists, and subflooring [1.8](#)

9 Install a single floor system using tongue-and-groove plywood/OSB [1.9](#)

10 Identify different framing types and systems [1.10](#)

11 Lay out, construct and erect walls and partitions. [1.11](#)

12 Lay out, cut and install ceiling joists [1.12](#)

13 Identify different styles of roofs and their layouts [1.13](#)

14 Measure and calculate roof area to determine material needs [1.14](#)

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- 15** Layout and construct a frame roof and apply sheathing. 1.15
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- 16** Apply fiberglass shingles with a 5” exposure, including at least one rooftop projection. 1.16
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- 17** Install a pre-hung window. 1.17
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- 18** Install a pre-hung exterior door with weather-stripping. 1.18
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- 19** Install a pre-hung interior door. 1.19
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- 20** Install a lockset on an entry door. 1.20
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- 21** Describe the types of and demonstrate the application of common wood sidings used as exterior finishes. 1.21
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- 22** Install factory-made cabinets, countertops, and backsplashes. 1.22
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- 23** Identify terminology found in MBMA systems including structural loads and safety 1.23
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- 24** Research the completion of a concrete block foundation and brick veneer project from blueprints. 1.24