

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