

# Carpentry II (2023)

The following competencies are to be taught within ALL application 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
- 2 Demonstrate time management skills. 0.2
- 3 Create and utilize employment documents including a resume and portfolio. 0.3
- 4 Demonstrate job seeking and interview skills. 0.4
- 5 Understand and respond to performance reviews. 0.5

## Benchmark 1 1

- 1 Erect, plumb, and brace concrete forms. 1.1
- 2 Demonstrate knowledge of mixing components and how they affect concrete strength. 1.2
- 3 Use a slump test to measure consistency of concrete and describe methods for controlling cracking. 1.3
- 4 Install footings and foundations. 1.4
- 5 Describe the need for, and install thermal and sound insulation and vapor barriers. 1.5
- 6 Identify and install various types of floor systems to include: layout, bridging, joists, and subflooring. 1.6
- 7 Lay out, construct and erect walls and partitions. 1.7
- 8 Install gypsum drywall panels on stud walls and ceilings using different types of fastening systems. 1.8
- 9 Demonstrate ability to properly finish drywall and patch damaged drywall. 1.9
- 10 Construct a frame roof, including hips, valleys, commons, jack rafters and sheathing. 1.10
- 11 Install a BUR and EPDM roof system on mockup roof. 1.11
- 12 For a stairway of given dimensions, determine the total rise, the number and size of the risers, and the number and size of the treads. 1.12

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- 13 Construct a staircase according to a specific plan. 1.13**
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- 14 Install interior trim, including door, window, base, and ceiling trims. 1.14**
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- 15 Use technology and resources to research licensing certification and credentialing in the construction industry. 1.15**
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- 16 Identify the components of simple electrical systems. 1.16**
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- 17 Articulate (written or verbal) how Electrical systems fit into the total construction project. 1.17**
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- 18 Demonstrate understanding of climatic control systems. 1.18**
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- 19 Identify the components of simple HVAC and plumbing systems. 1.19**
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- 20 Articulate (written or verbal) how HVAC and Plumbing Systems fit into the total construction project; including how teamwork plays an important role in the timely completion of the project. 1.20**
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- 21 Demonstrate the completion of a concrete block foundation and brick veneer project from blueprints. 1.21**
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- 22 Work with client to construct project according to client specifications. 1.22**