Grade 11-12 Carpentry II, Quarter 2, Revised 2014-15

Big Ideas/Key Concepts: Types of Molding, Insulation, Vapor Barriers, and Ventilation, Stairs and Wallboard

Cold-formed steel framing: Identify the components of steel framing, tools and fasteners, applications of cold-formed steel framing. Identify the various types of door jambs and frames, types of interior doors, interior door hardware, procedure for hanging a door. Students will explore thermal and moisture protection. Insulation and flashing, cornices, siding estimating, various types of siding materials and methods of application.

<table>
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<tr>
<th>Standards</th>
<th>Student Friendly “I Can” Statements</th>
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| Standard 7.0: Students will install trim on doors, windows, and other features. | • I can install trim on doors and windows  
• I can distinguish different types of trim  
• I can understand the different R-values and where they’re used |
| 7.1 Differentiates between common types of molding and their typical uses.  
7.2 Install trim on doors, windows, and other features. |  
• I can implement attic ventilation  
• I can install insulation, vapor barriers, and house wraps  
• I can build stairs that meet codes standards |
| Standard 10.0: Students will describe the need for and methods of achieving thermal and moisture protection |  
10.1 Calculate R-values for specified wall designs.  
10.2 Describe the need for and typical methods for implementing attic ventilation.  
10.3 Describe the need for and typical methods for providing vapor barriers on floors, walls, ceilings, and roofs.  
10.4 Install insulation, vapor barriers, and house wraps  
• I can determine rise and run and cut stringers  
• I can hang wallboard  
• I can repair wallboard  
• I can finish wallboard |
| Standard 5: Students will explore the geometry and methods of fabrication of |  
• I can install trim on doors and windows  
• I can distinguish different types of trim  
• I can understand the different R-values and where they’re used |
stairs.

5.1 Compare and contrast various types of stair construction used in residential and commercial structures.
5.2 Determine unit rise and unit run, and compare to appropriate building code standards.
5.3 Interpret construction drawings of stairs.
5.4 Construct all or part of a stair, based on construction drawings.

Standard 6:
Students will install, finish, and repair gypsum wallboard.

6.1 Compare and contrast the various types and uses of gypsum wallboard.
6.2 Installs gypsum wallboard using proper fasteners
6.3 Finish a gypsum wallboard installation.