

# Carpentry for Residential Interiors

<b>Unit: 1-5</b>	Wall Coverings
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Compare various types of wall coverings used in interior residential carpentry.</li> <li>2. Use appropriate fastening systems for residential interior applications.</li> <li>3. Install single and multilayer wall coverings, using a variety of fastener types and installation methods.</li> <li>4. Install wall covering over wood and metal studs,</li> <li>5. Estimate materials needed for a specific wall covering installation project.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Install various interior walls covering material over existing wood wall framing.</li> <li>2. Install various interior walls covering material over existing metal wall framing.</li> <li>3. Attach various interior walls covering material using various types of fasteners.</li> <li>4. Calculate material quantities of interior wall covering material.</li> </ol>
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<b>Essential Question(s):</b>	What are the ingredients of gypsum board?
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
Drywall Gypsum Fire-rated Gauge Paneling Liquid nails Type-X M-R board Sound board NFPA U.S. Gypsum Association	Laboratory demonstrations and experiments Guided practice Group investigation Listen, think, pair, share Demonstrations Discussion Individual and group practice Problem solving exercises Math application exercises Math application worksheets Portfolio Case studies Lecture	Laboratory shop equipment Student work sheets Tools and supplies adequate for class PowerPoint presentations Handouts Textbooks, online and print Online resources Online technical reference Computers, laptop and desktop LCD projector Video/DVD presentations Portfolio folders NCCER Modules

	NCCER Performance Testing	OSHA Training Standards SkillsUSA Technical Standards SkillsUSA Contest Projects SkillsUSA Professional Development
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<b>Unit Assessment:</b>	Daily participation Organization of portfolios NCCER Performance Testing Project presentations
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<b>Unit/Course CTSO Activity:</b>	<ol style="list-style-type: none"> <li>1. Complete NCCER Core Curriculum Trainee Guide.</li> <li>2. Successfully complete all performance modules.</li> <li>3. Continue SkillsUSA Leadership Development Programs.</li> <li>4. Students review SkillsUSA Technical Standards and Contest Projects.</li> </ol>
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<b>Unit/Course Culminating Product:</b>	Students shall accomplish NCCER written and performance exams. Completion of On-The-Job Training (OJT) Student portfolio submission
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**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree  
 Other: **NCCER Residential Carpentry**

# Carpentry for Residential Interiors

<b>Unit: 6</b>	Drywall Finishing
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>6. Explain various degrees of drywall finishing recognized in the construction industry.             <ul style="list-style-type: none"> <li>• Describing materials used in drywall finishing, including compounds, joint reinforcing tapes, trim materials, textures, and coatings</li> <li>• Demonstrating the ability to finish a drywall with power and hand tools</li> </ul> </li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Describe different products used in drywall finishing.</li> <li>2. Explain in what sequence finishing materials should be used and why.</li> <li>3. Describe the proper use of hand and power tools.</li> </ol>
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<b>Essential Question(s):</b>	Why does dry wall compounds differ in colors and hardness?
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
Drywall coatings Joint reinforcing tapes Edging and trim materials Drywall compounds U.U. Gypsum Association Safety standards	Laboratory demonstrations and experiments Guided practice Group investigation Listen, think, pair, share Demonstrations Discussion Individual and group practice Problem solving exercises Math application exercises Math application worksheets Portfolio Case studies Lecture	Laboratory shop equipment Student work sheets Tools and supplies adequate for class PowerPoint presentations Handouts Textbooks, online and print Online resources Online technical reference Computers, laptop and desktop LCD projector Video/DVD presentations Portfolio folders NCCER Modules

	NCCER Performance Testing	OSHA Training Standards SkillsUSA Technical Standards SkillsUSA Contest Projects SkillsUSA Professional Development
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<b>Unit Assessment:</b>	Daily participation Organization of portfolios NCCER Performance Testing Project presentations
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<b>Unit/Course CTSO Activity:</b>	<ol style="list-style-type: none"> <li>1. Complete NCCER Core Curriculum Trainee Guide.</li> <li>2. Successfully complete all performance modules.</li> <li>3. Continue SkillsUSA Leadership Development Programs.</li> <li>4. Students review SkillsUSA Technical Standards and Contest Projects.</li> </ol>
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<b>Unit/Course Culminating Product:</b>	Students shall accomplish NCCER written and performance exams. Completion of On-The-Job Training (OJT) Student portfolio submission
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<b>Course/Program Credential(s):</b>	<input checked="" type="checkbox"/> Credential <input type="checkbox"/> Certificate <input type="checkbox"/> Postsecondary Degree <input type="checkbox"/> University Degree <input type="checkbox"/> Other: <b>NCCER Residential Carpentry</b>
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# Carpentry for Residential Interiors

<b>Unit: 7-8</b>	Interior Finish, Doors
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>7. Demonstrate door installation procedures in various interior partitions.</li> <li>8. Demonstrate safe use of hand and power tools needed for installing interior doors.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Explain the procedures for installing interior door units.</li> <li>2. Install interior doors using proper hand and power tools.</li> </ol>
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<b>Essential Question(s):</b>	How are door swing directions determined for interior doors?
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
Rough openings Door types Door sizes Installation Hardware	Laboratory demonstrations and experiments Guided practice Group investigation Listen, think, pair, share Demonstrations Discussion Individual and group practice Problem solving exercises Math application exercises Math application worksheets Portfolio Case studies Lecture NCCER Performance Testing	Laboratory shop equipment Student work sheets Tools and supplies adequate for class PowerPoint presentations Handouts Textbooks, online and print Online resources Online technical reference Computers, laptop and desktop LCD projector Video/DVD presentations Portfolio folders NCCER Modules OSHA Training Standards

		SkillsUSA Technical Standards SkillsUSA Contest Projects SkillsUSA Professional Development
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<b>Unit Assessment:</b>	Daily participation Organization of portfolios NCCER Performance Testing Project presentations
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<b>Unit/Course CTSO Activity:</b>	<ol style="list-style-type: none"> <li>1. Complete NCCER Core Curriculum Trainee Guide.</li> <li>2. Successfully complete all performance modules.</li> <li>3. Continue SkillsUSA Leadership Development Programs.</li> <li>4. Students review SkillsUSA Technical Standards and Contest Projects.</li> </ol>
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<b>Unit/Course Culminating Product:</b>	Students shall accomplish NCCER written and performance exams. Completion of On-The-Job Training (OJT) Student portfolio submission
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<b>Course/Program Credential(s):</b>	<input checked="" type="checkbox"/> Credential <input type="checkbox"/> Certificate <input type="checkbox"/> Postsecondary Degree <input type="checkbox"/> University Degree <input type="checkbox"/> Other: <b>NCCER Residential Carpentry</b>
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# Carpentry for Residential Interiors

<b>Unit: 9-10</b>	Interior Finishing, Suspended Ceilings
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>9. Identify various types of suspended ceilings.             <ul style="list-style-type: none"> <li>• Interpreting plans and shop drawings related to suspended ceiling layout</li> </ul> </li> <li>10. Formulate a list of materials needed for constructing a suspended ceiling.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Estimate a material list for installing a suspended ceiling.</li> <li>2. Describe applications for the different types of suspended ceilings.</li> <li>3. Describe how floor plans affect the layout of suspended ceilings.</li> </ol>
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<b>Essential Question(s):</b>	Why is fire rating an important factor when selecting a suspended ceiling?
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
Safety U.S. Gypsum Association UL Approved (rating) Sound factor in ceiling tiles Fire rating Fasteners	Laboratory demonstrations and experiments Guided practice Group investigation Listen, think, pair, share Demonstrations Discussion Individual and group practice Problem solving exercises Math application exercises Math application worksheets Portfolio Case studies Lecture	Laboratory shop equipment Student work sheets Tools and supplies adequate for class PowerPoint presentations Handouts Textbooks, online and print Online resources Online technical reference Computers, laptop and desktop LCD projector Video/DVD presentations Portfolio folders NCCER Modules

	NCCER Performance Testing	OSHA Training Standards SkillsUSA Technical Standards SkillsUSA Contest Projects SkillsUSA Professional Development
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<b>Unit Assessment:</b>	Daily participation Organization of portfolios NCCER Performance Testing Project presentations
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<b>Unit/Course CTSO Activity:</b>	<ol style="list-style-type: none"> <li>1. Complete NCCER Core Curriculum Trainee Guide.</li> <li>2. Successfully complete all performance modules.</li> <li>3. Continue SkillsUSA Leadership Development Programs.</li> <li>4. Students review SkillsUSA Technical Standards and Contest Projects.</li> </ol>
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<b>Unit/Course Culminating Product:</b>	Students shall accomplish NCCER written and performance exams. Completion of On-The-Job Training (OJT) Student portfolio submission
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<b>Course/Program Credential(s):</b>	<input checked="" type="checkbox"/> Credential <input type="checkbox"/> Certificate <input type="checkbox"/> Postsecondary Degree <input type="checkbox"/> University Degree <input type="checkbox"/> Other: <b>NCCER Residential Carpentry</b>
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# Carpentry for Residential Interiors

<b>Unit: 11-14</b>	Interior Finishing - Window, Floor, and Ceiling Trim
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>11. Describe various types of interior ceilings.</li> <li>12. Practice square and miter cuts used for molding installation.</li> <li>13. Demonstrate the fabrication of molding using coping joint cuts.</li> <li>14. Install interior door, window, base, and ceiling trim.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Describe the different types of ceilings used in residential construction.</li> <li>2. Install mitered and jointed molding.</li> <li>3. Install coped joints.</li> <li>4. Demonstrate the ability to install doors, window units, and molding.</li> </ol>
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<b>Essential Question(s):</b>	Why would a cope cut be used on ceiling trim instead of using a miter cut?
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
Ceiling types Molding types Installation Fasteners	Laboratory demonstrations and experiments Guided practice Group investigation Listen, think, pair, share Demonstrations Discussion Individual and group practice Problem solving exercises Math application exercises Math application worksheets Portfolio Case studies Lecture	Laboratory shop equipment Student work sheets Tools and supplies adequate for class PowerPoint presentations Handouts Textbooks, online and print Online resources Online technical reference Computers, laptop and desktop LCD projector Video/DVD presentations Portfolio folders NCCER Modules

	NCCER Performance Testing	OSHA Training Standards SkillsUSA Technical Standards SkillsUSA Contest Projects SkillsUSA Professional Development
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<b>Unit Assessment:</b>	Daily participation Organize portfolios NCCER Performance Testing Project presentations
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<b>Unit/Course CTSO Activity:</b>	<ol style="list-style-type: none"> <li>1. Complete NCCER Core Curriculum Trainee Guide.</li> <li>2. Successfully complete all performance modules.</li> <li>3. Continue SkillsUSA Leadership Development Programs.</li> <li>4. Students review SkillsUSA Technical Standards and Contest Projects.</li> </ol>
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<b>Unit/Course Culminating Product:</b>	Students shall accomplish NCCER written and performance exams. Completion of On-The-Job Training (OJT) Student portfolio submission
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<b>Course/Program Credential(s):</b>	<input type="checkbox"/> Credential <input type="checkbox"/> Certificate <input type="checkbox"/> Postsecondary Degree <input type="checkbox"/> University Degree <input checked="" type="checkbox"/> Other: <b>NCCER Residential Carpentry/Module _____ <u>and</u> Embedded Math</b>
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# Carpentry for Residential Interiors

<b>Unit: 15-17</b>	Interior Finishing, Cabinet Installation
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>15. Identify purposes of cabinet components and hardware.</li> <li>16. Demonstrate the installation of cabinet base and wall units.</li> <li>17. Install countertops, including plastic, laminate, tile, and granite.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. List cabinet components and describe their purposes.</li> <li>2. Properly join wall cabinet components, level, and install.</li> <li>3. Demonstrate how to square countertops to walls and mount to cabinets.</li> </ol>
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<b>Essential Question(s):</b>	How does the layout of a kitchen relate to the selection of cabinet components?
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
Hand tools Cordless tools Power tools Fasteners <ul style="list-style-type: none"> <li>• types</li> <li>• installation</li> </ul> Job-site safety Accidents – causes and preventions	Laboratory demonstrations and experiments Guided practice Group investigation Listen, think, pair, share Demonstrations Discussion Individual and group practice Problem solving exercises Math application exercises Math application worksheets Portfolio Case studies Lecture	Laboratory shop equipment Student work sheets Tools and supplies adequate for class PowerPoint presentations Handouts Textbooks, online and print Online resources Online technical reference Computers, laptop & desktop LCD projector Video/DVD presentations Portfolio folders NCCER Modules

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<b>Unit Assessment:</b>	Daily participation Organize portfolios NCCER Performance Testing Project presentations
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<b>Unit/Course CTSO Activity:</b>	<ol style="list-style-type: none"> <li>1. Complete NCCER Core Curriculum Trainee Guide</li> <li>2. Successfully complete all performance modules</li> <li>3. Continue SkillsUSA Leadership Development Programs</li> <li>4. Students review SkillsUSA Technical Standards and Contest Projects</li> </ol>
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<b>Unit/Course Culminating Product:</b>	Students shall accomplish NCCER written and performance exams Completion of On-The-Job Training (OJT) Student portfolio submission
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<b>Course/Program Credential(s):</b>	<input checked="" type="checkbox"/> Credential <input type="checkbox"/> Certificate <input type="checkbox"/> Postsecondary Degree <input type="checkbox"/> University Degree <input type="checkbox"/> Other: <b>NCCER Residential Carpentry</b>
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