

<b>Course:</b> Carpentry	<b>Grade:</b> 9-12
<b>Instructor:</b>	<b>CIP Code:</b> 460201
<b>Unit:</b> Unit 7	<b>Title:</b> Roof Framing
<p><b>Knowledge, Content and Skills:</b> Identify roof styles and the components of a gable roof. Reference a roof framing plan, rafter terms and how to calculate dimensions and layout a common rafter then assemble a gable roof.</p>	
<p><b>Performance objective:</b> Layout and install rafters, collar ties, frieze blocks and gable studs to complete a gable roof assembly.</p>	
<p><b>Competency:</b> 3. Demonstrate use of appropriate personal safety equipment and proper use of emergency equipment. 9. Demonstrate proper safety and use of hand tools. 10. Demonstrate proper use and safety of common power tools. 18. Identify roof framing members and demonstrate how to erect rafters and/or trusses and apply roof sheathing. 21. Explain the safety requirements for roof jobs, identify the materials and methods used in roofing, and discuss/ demonstrate different techniques for installing roofing.</p>	
<p><b>Common Core:</b> Listening: Students will demonstrate the ability to listen and view critically for variety of purposes. Reading Informational Texts Competency: Students will demonstrate the ability to comprehend, analyze and critique a variety of increasingly complex print and non-print informational texts.</p>	
<p><b>Tools, supplies and reference materials:</b> Hand tools, circular saw, handsaw, 2x4, 2x6, framing square, 8d and 16d nails, ladders or scaffold, calculator and Career Connections Project Book 3 Residential pages: 254-330.</p>	
<p><b>Methods of instruction:</b> Lecture on chapter highlights using power-point, review of new vocabulary, demonstration on how to calculate a rafter length and layout a sample rafter together. Break out into small groups and practice rafter layout.</p>	
<p><b>Task analysis or activities:</b> Students will be able to identify parts of a rafter, calculate rafter length, layout and cut a rafter. Assemble a gable roof.</p>	
<p><b>Evaluation:</b> Students will be graded on their use of time, safety methods, quality of work, cleaning and organization of their work area, interaction with other students, and employability skills. Assessments are found on pages: 326-330.</p>	
<p><b>Instructors Notes:</b></p>	