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| <b>Course:</b> Carpentry  | <b>Grade:</b> 9-12                             |
| <b>Instructor:</b>  | <b>CIP Code:</b> 460201                        |
| <b>Unit:</b> Unit 3   | <b>Title:</b> Ch 4: Load Bearing Steel Framing |
| <p><b>Knowledge, Content and Skills:</b> Students will be able to: identify and handle load bearing steel, use terminology and layout and install load bearing steel.</p>   |  |
| <p><b>Performance objective:</b> Frame headers with load bearing steel and construct a roof truss.</p>  |  |
| <p><b>Competency:</b> 1. Identify and demonstrate the procedures and policies of safety in the trade. 2. Explain basic riggings and describe inspection techniques and load handling safety practices with proper use of ladders and scaffolds. 3. Demonstrate use of appropriate personal safety equipment and proper use of emergency equipment. 17. Identify components of wall and ceiling layout and demonstrate how to cut studs, trimmers, cripples and headers to dimension in order to build wall sections. 18. Identify roof framing members and demonstrate how to erect rafters and/or trusses.</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> Clear area to layout, prints, tool pouch set up for layout and metal framing. Career Connection Book 3 Commercial pages 167-213.</p>   |  |
| <p><b>Methods of instruction:</b> Lecture on new vocabulary, review the chapter, demonstrate how to cut and assemble load-bearing steel framing.</p>  |  |
| <p><b>Task analysis or activities:</b> Students will demonstrate appropriate dress for the shop using the required PPE. Practice using the 3-4-5 method to establish a perpendicular line.</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. Evaluate student work using the layout and framing rubric pages: 210-213</p>  |  |
| <p><b>Instructor's Notes:</b></p>   |  |