

Course: Carpentry	Grade: 9-12
Instructor:	CIP Code: 460201
Unit: Unit 8	Title: Sheathing and Barriers
<p>Knowledge, Content and Skills: Identify types of water-resistant-barriers (WRB) and how to install WRB and flashing and sealants.</p> <p>Performance objective: Install water-resistant-barrier using plastic cap nails. Install flashing and sealants to a window or door opening according to manufacture instructions.</p>	
<p>Competency: 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. 23. Describe the characteristics of various types of insulation materials, vapor barriers and building wraps. 25. Discuss how to meet new energy code standards.</p>	
<p>Common Core: 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>Tools, supplies and reference materials: Roll of house wrap, cap nails, flashing, tape and sealant. Career Connections Project Book 3 Residential pages: 332-343.</p>	
<p>Methods of instruction: Demonstration on how to install WRB, and importance of using WRB to protect the structure. Lecture on materials from text, possible video from manufacturer, I.e. Andersen windows https://www.andersenwindows.com/for-professionals/documents/installation-guides/ . Field trip to a jobsite or the Union Training Hall to see the task performed by professional carpenters.</p>	
<p>Task analysis or activities: Practice installing WRB on an existing structure. Consider placing small structures outside for a set length of time and investigating how well the WRB protected or failed to protect the structure.</p>	
<p>Evaluation: 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.</p>	
<p>Instructors Notes:</p>	