

Carpentry Frameworks Based Lesson Plan  
Finish the Exterior- Doors/ Windows 2.I.01.03

<b>Course:</b> Carpentry	<b>Grade:</b> 9-12
<b>Instructor:</b>	<b>CIP Code:</b> 460201
<b>Unit:</b> Unit 9	<b>Title:</b> Installing exterior doors and windows
<b>Knowledge, Content and Skills:</b> Define door and window terms. Identify types of doors and windows, e.g. door swing. Identify and reference a door and window schedule on a set of prints, install doors and windows. Understand weatherization techniques.	
<b>Performance objective:</b> Students will apply weatherization techniques to install doors and windows. Check Manufacturer's instructions for warranty information and specific installation instructions.	
<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. 19. Identify various window types and rating classifications and state the requirements for proper window installation (how it is made, what numbers mean on the sticker, etc. Egress windows.) 20. Identify various door types and common sizes and explain the correct installation procedure for doors. 28. Identify various types of doors and jamb options. 29. Describe the process for placing and hanging a selected door.	
<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.	
<b>Tools, supplies and reference materials:</b> Hand tools, levels, wall with rough opening matching the sample doors and windows, shims, weatherization materials (WRB, sealants, tape, etc.) Career Connection Book 3 pages: 344-374.	
<b>Methods of instruction:</b> Lecture on chapter and key vocabulary words using power point or videos. Demonstration on door and window installation. Video on window installation: <b>Andersen windows</b> <a href="https://www.andersenwindows.com/for-professionals/documents/installation-guides/">https://www.andersenwindows.com/for-professionals/documents/installation-guides/</a> .	
<b>Task analysis or activities:</b> Students could work in small groups to complete the installation depending on available materials and sample windows or doors.	
<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. Project evaluations are on pages 372-373.	
<b>Instructors Notes:</b>	

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