**Lesson Information**

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| Lesson: (2 of 4) Windows and Exterior Doors Length: 90 minutes  Unit: (3 of 4) Weatherproofing  Course: Carpentry |

**Content Assumptions**

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| Prior to this class, students have taken the previous lesson, “Thermal and Moisture Protection.” |

**Essential Questions**

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| 1. How do windows and exterior doors relate to weatherproofing buildings? 2. How are doors and windows properly installed? |

**Objectives Assessments**

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| After completing this lesson, students will be able to:   1. Identify different types of windows and exterior doors and state their uses. 2. State the steps in installation processes for windows and exterior doors. | 1. Written/drawn descriptions of windows and doors — checklist; class discussion — Instructor observation 2. Written installation process — checklist |

**Activities/Instruction**

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| **Show…** (30 minutes)  Instructor shows photos of different types of windows, exterior doors, thresholds, and locksets, describing each and explaining how they are used. After the demonstration, students are to draw each type of window and door mentioned and write their names and descriptions.  **…and Tell** (30 minutes)  Following the lecture on types of windows and doors, Instructor facilitates a classroom discussion of how these components relate to the building insulation concepts from the previous lesson, “Thermal and Moisture Protection.”  **Teach Each Other — Window and Door Installations** (30 minutes)  Instructor divides class into two groups, assigning one group to learn how to install windows, and the other to learn how to install exterior doors. Using classroom or library resources, or Internet sources (such as those listed in the Materials section), students are to spend 20 minutes learning how to install their assigned component. Instructor then pairs up students (one from each group in a pair). For the last 10 minutes of class, each student teaches the other what s/he learned, and that student writes down the steps in the installation process. |

**Materials**

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| For students:   * Classroom/library resources * http://www.lowes.com/cd\_Install+an+Exterior+Door\_554148183\_  (Tutorial for installing exterior doors) * http://www.thisoldhouse.com/toh/how-to/intro/0,,218006,00.html (Tutorial for installing windows)   For Instructor:   * Photos of different types of windows, exterior doors, thresholds, and locksets * [WINDOW-DOOR DESCRIPTION CHECKLIST] * [INSTALLATION PROCESS CHECKLIST] |