**Lesson Information**

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| Lesson: (3 of 4) Roofing Applications Length: 90 minutes  Unit: (3 of 4) Weatherproofing  Course: Carpentry |

**Content Assumptions**

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| Prior to this class, students have taken safety and communications courses. |

**Essential Questions**

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| 1. How are different roofing materials suited for different purposes? 2. How are different roof features covered by different methods? |

**Objectives Assessments**

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| After completing this lesson, students will be able to:   1. Demonstrate their knowledge of terms associated with roofing. 2. Demonstrate their understanding of the various methods for safely covering roofs. | 1. Crossword puzzle — key 2. Written installation process — checklist |

**Activities/Instruction**

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| **Show and Tell** (45 minutes)  Instructor displays samples of roofing materials and photos of different kinds of roofs and roof features, naming and explaining each one. Students may take notes. After the demonstration, students are to complete [ROOFING CROSSWORD].  **Plan it Out** (45 minutes)  Students are to choose a type of roofing material (e.g., shingles, tiles, metal) and, using classroom, library, or Internet resources, research how to install that material safely. Students then write out the installation process, including notes on how to estimate materials and how to stay safe on the roof. |

**Materials**

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| For students:   * [ROOFING CROSSWORD] * Classroom/library resources * Internet resources — some suggestions are: * http://www.familyhandyman.com/DIY-Projects/Home-Exterior/Roofing/how-to-install-shingles (Tutorial for installing shingles) * http://www.wikihow.com/Install-Roof-Tile (Tutorial for installing tiles) * http://www.bobvila.com/sections/tv-shows/projects/14-victorian-restoration/episodes/170-skylight-installation-roofing-and-painting/videos/1094187249001-installing-standing-seam-copper-roofing (Video tutorial for installing copper roofing) * http://www.wikihow.com/Estimate-Roofing-Materials (Processes for estimating roofing materials) * http://www.owenscorning.com/around/roofing/pdfs/Done\_Safty\_First.pdf (Tips for staying safe on roofs)   For Instructor:   * Samples of roofing materials (e.g., different kinds of shingles, tiles, sheathing, etc.) * Photos of different kinds of roofs and roof features * [ROOFING CROSSWORD KEY] * [INSTALLATION PROCESS CHECKLIST] |