

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

Unit: Finish the Exterior
Title: Doors and Windows

Skill(s) and Knowledge: Define door and window terms check a door and window schedule on a set of prints, use a level, shim a rough opening to accept a frame. Understand weatherization techniques.

Tasks: Students will be able to install and weatherproof a door and a window.

Performance objective:

Students will apply weatherization techniques to install doors and windows. Check Manufacturer's instructions for warranty information and specific installation instructions.

Tools, supplies and reference materials:

Windows and doors, shims, level, hand tools, Career Connections Project Book 3 pages 359-371.

Methods of instruction: Identification and discussion of exterior doors and windows from the text and power point presentation. Field trip to National Vinyl to see windows manufactured. Demonstration on installation and weatherization.

Estimated time: 10 hrs. **Number of students:** 10

Task analysis or activities:

Students will install doors and windows.

1. Gather the tools and materials
2. check for level and plumb
3. Shim accordingly.
4. Weatherproof the opening
5. Install the door/window
6. Apply appropriate weatherproofing materials

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 vocational employability skills grading rubric. Manipulative skills assessment and a written exam.

Performance Notes:

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Vocational Frameworks References

- 2.A.01.05 Identify and apply OSHA safety regulations.
- 2.B.04 Understand detail views and schedules.
- 2.E.01.01 Demonstrate use and maintainance of layout, marking and measuring tools.
- 2.I.01.03 Install windows and doors.

English/Strand 3 Frameworks References:

- 3.A.09c Read technical manuals, guides, resource books and technical literature to gain information and solve problems.
- 3.A.03c Identify and use knowledge of common graphic features(charts, maps, diagrams).

Frameworks References: Math

- 3.B.07c Demonstrate the ability to visualize solid objects.

Common Core References:

- Read and listen critically for information understanding and enjoyment
- Set goals and achieve them by organizing time, workspace, and resources effectively
- Work both independently and in groups

SCANS references:

Foundation Skills:

1. Basic skills— reading, writing, mathematics, speaking, and listening.
2. Thinking Skills-- thinking creatively, making decisions, solving problems, visualizing, knowing how to learn, and reasoning
3. Personal qualities--individual responsibility, self-esteem, sociability, self management, and integrity

Work Place Competencies

1. Resources--allocating time, money, material, space, and staff.
2. Interpersonal skills--working in teams, teaching others, serving customers, leading negotiating, and working well with culturally diverse populations.
3. Information--acquiring and evaluating data, organizing and maintaining files, interpreting & communicating, and using computer to process information
4. Systems--understanding social, organizational, and technological systems, monitoring and correcting performance, and designing or improving systems.
5. Technology--selecting equipment and tools, applying technology to specific tasks, and maintaining and troubleshooting technologies.