

Carpentry Frameworks Based Lesson Plan

Frameworks, 2.A, 2.B, 2.E, 2.F

Unit: Construction Concepts Project Book 3 Commercial Unit 1

Title: Review of Safety, Tools, Jobsite, and Print reading

Skill(s) and Knowledge: Identify and describe tools found on a commercial job, jobsite safety, recognize teamwork, and interpret information found on prints.

Tasks: Students will be able to: Identify hazards, demonstrate use of PPE, perform 3 points of contact ladder safety, proper tool handling and identify tools for each task and communication on the jobsite, interpret prints to complete projects.

Performance objective:

Students will identify and practice safety procedures in the event of an accident. Students will group tools according to task, i.e. door hardware, drywall install, etc. Students will practice proper tool storage. Students will identify and describe lines, dimensions, and abbreviations from prints.

Tools, supplies and reference materials:

Personal Protective Equipment, Tools listed on pages 30-31 in Project Book 3 Commercial,

Methods of instruction: Lecture and discussion of material in Unit 1. Practice proper ladder use techniques, use of tools and organization of tools for different carpentry careers, use safety and operations checklists for each tool, field trip to a jobsite to identify hazards, view One Trade Many Careers to show each of the different careers available.

Estimated time: 30 hrs. **Number of students:** 10-15

Task analysis or activities:

Students will use an architect's scale to find dimensions on prints.

Students will properly set up an extension ladder.

Students will identify job site safety and communication.

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 assessments and written evaluations.

Performance Notes:

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Vocational Frameworks References

- 2.A.01 Successfully complete safety training on all related equipment and materials.
- 2.B.01 Describe the basic layout of a set of construction documents.
- 2.E.01 Describe and demonstrate the use and care of hand tools.
- 2.F.01 Demonstrate the use, storage, and maintenance of power tools.

English/Strand 3 Frameworks References:

- 2.B.01-06 Determine the meaning of symbols, key terms, and other domain-specific words and phrases in a technical context.

Frameworks References: Math

- G-CO11 Prove theorems about parallelograms; opposite sides are congruent, opposite angles are congruent, rectangles are parallelograms with congruent diagonals.

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

Workplace 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, maintaining and troubleshooting technologies.