

## *Integrated Lesson Plan*

Instructor: Robert C. Miller

Program: Carpentry

Unit: P10

Lesson Title: Build a set of stairs

Terminal Objective: Upon completion of this unit, the student will be able to estimate the materials and build a set stair to industry standards.

Enabling Objectives:

1. The student will estimate, and write a materials list with 100% accuracy.
2. The student will read and answer review questions in Chapter 11 in Modern Carpentry text.
3. The student will watch a demonstration on laying out a stringer.

Related PA Academic Standards:

Reading, Writing, Speaking and Listening

1.1.11.A Locate various texts, media and traditional resources for assigned and independent projects.

1.2.11.A Read and understand essential content of informational texts and in all academic areas.

Mathematics

2.2.11A Develop and use computation concepts, operations and procedures with real numbers in problem-solving situations.

Introduction:

1. Theory on history of stair construction .
2. Discussing layout of stair construction.
3. Demonstrate layout.
4. Read information sheets and performance sheets to complete task.

Body/Main Content:

- I. Complete estimate and fill out material list.
- II. Layout stair stringer.

Summary:

After successfully completing assigned task the student should be able to estimate, layout, set a set of stairs to a building.

Materials Needed:

Carpentry Text

Tools for laying out stair stringer

2"x 12" SPF 16'