

APR 220C : CARPENTER XII

Transcript title

Carpenter XII

Credits

3

Grading mode

Standard letter grades

Total contact hours

55

Lecture hours

22

Lab hours

33

Prerequisites

APR 219C.

Course Description

Covers advanced wooden and commercial stair systems. Introduces construction equipment. Covers fundamental crew leadership skills. Introduces oxyfuel cutting and arc welding with practice labs.

Course learning outcomes

1. Construct advanced stair systems.
2. Demonstrate safe practices around construction equipment.
3. Model crew leadership.
4. Perform steel cutting and various welding techniques safely.

Content outline

1. Advanced stair systems, materials, and techniques for wooden staircases
2. Commercial stair systems
3. Introduction to construction equipment including aerial lifts, skid steer loader, electric power generator, compressor, compactor, and forklift
4. Construction equipment safety, introduction to operation and maintenance of equipment
5. Fundamentals of crew leadership, communication, leadership styles, delegation, problem solving, project planning, scheduling, estimating
6. Introduction to oxyfuel cutting and arc welding, equipment, procedures, safety
7. Shielded metal arc welding, gas-tungsten arc welding, gas metal arc welding

Required materials

Textbook is required.