

**Napa Valley Adult Education
Construction/Trades
Course Outline**

Course Title: Building and Construction

CBEDS Title: Introduction to Building and Construction Trades

Grade Level: Adult

Course Title: Building and Construction

1. Goal or purpose

The goal or purpose of this course:

Students will learn the essential knowledge and skills that are needed to work in an entry level construction job. Students will receive an introduction to the use and maintenance of hand tools, power tools and pneumatic tools. They will be shown the proper use of basic construction hand tools following a sequential outline. Participants will then be introduced to the proper use of basic power tools used in the construction trades. Students will also gain a deeper understanding of materials used in construction with an emphasis on framing and structural elements of building. There will also be a brief review of communication skills, job search skills and career opportunities.

2. Performance Objectives:

Students will be able to:

- A. Use measurement tools
- B. Apply introductory construction math
- C. Learn about construction materials and equipment
- D. Use hand and power tools safely
- E. Use and maintain hand tools, electric tools and pneumatic tools
- F. Learn carpentry skills
- G. Do basic room framing, sheathing and roofing
- H. Learn communication and job search skills

3. Instructional Strategies:

- Instructor presentation and demonstration
- Communicative /interactive activities
- Problem Solving
- Project-Based Learning
- Field trips and guest speakers

4. Time and Content of Instruction:

The total hours for this course:

= 50 hours

Basic Safety
Hand Tools
Power Tools
Introduction to Construction Drawings
Basic Rigging

Essentials of Carpentry
Communication Skills
Employability Skills
Materials Handling

5. Evaluation:

The following means of evaluation will be used:

- Performance assessments
- Scores on quizzes, test and worksheets
- Projects, presentations

6. Repetition:

Students may with the consent of the instructor, repeat the class until the desired competencies are reached.

7. Texts and Materials:

The National Center for Construction Education and Research (NCCER) Curriculum

- *NCCER: Core Curriculum: Introductory Craft Skills, 5th Edition (English and Spanish)*
- *NCCER: Carpentry, 4th Edition*