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*As a supplement to this material, instructors may consider including the OSHA 10-hour certificate program. The OSHA 10-hour certificate must be presented by a licensed OSHA instructor.
Introduction

This two-week program is intended to serve those prevocational students who want to pursue employment in the “green” sector. The program introduces students to the skills used in basic labor activities through a hands-on experience as well as a segmented instructional classroom setting. Students enrolled in the course should have a minimum of an eighth grade education.

The classroom segments are limited to 15-minute blocks in order to facilitate learning at the level of the adult student. Adult learners value short lecture segments and learn best when they are able to use their vast existing knowledge and apply it in new ways. Real world experience from instructors and guest speakers help make the information relevant to the future of the student.

The material contained herein is organized into daily activities and assessments. Each day consists of classroom time and lab time. The classroom assignments introduce elements of basic adult education through contextualized problems and reading. The lab time is a hands-on application of what has been learned during the classroom time.

This material is not intended to be used in a linear fashion. Rather, the lessons are written to allow the instructor a certain level of flexibility to apply the material to their particular audience. The most productive way would be to use the material to support the lab activities. The first week lab objective is to learn the skills necessary to build a simple structure such as a birdhouse. The second week lab objective is to build a larger, more complicated structure such as a park bench, with an emphasis on communication and math skills. The instructor has the liberty to substitute any appropriate project for these objectives.

The material is organized to be presented in a two-week workshop where students might expect to be in the classroom and lab for about six hours each weekday. However, individual instructors can easily modify the schedule to adjust for longer delivery times such as at a high school or junior high school.

As a supplement to this material, instructors may consider including the OSHA 10-hour certificate program. The OSHA 10-hour certificate must be presented by a licensed OSHA instructor.
Sample Outline of Daily Lesson Plans

Week 1 (Days 1 through 5)

Day 1
- Class Introduction, Facilities Tour, and Class Rules
- Module 1 – Safety, Unit 1, Introduction to a Culture of Safety, Part 1
- Module 2 – Math, Lab 1, How to Read a Tape Measure
- Module 2 – Math, Activity 1, Fun With a Tape Measure
- Module 3 – Tools, Unit 1, Hand Tools

Day 2
- Module 1 – Safety, Unit 2, A Culture of Safety, Part 2
- Module 2 – Math, Unit 1, Tape Measure Math
- Module 2 – Math, Lab 2, Tape Measure Math
- Module 3 – Tools, Unit 1, Hand Tools, continued
- Module 5 – Employment, Unit 1, Introduction to Employment

Day 3
- Module 1 – Safety, Unit 3, The Safe Work Environment
- Module 2 – Math, Unit 2, Perimeter and Area
- Module 2 – Math, Unit 2, Perimeter and Area
- Module 3 – Tools, Unit 1, Hand Tools, continued
- Module 5 – Employment, Unit 2, The Job Search Process
- Project 1 – Begin Project Layout

Day 4
- Module 6 – Green Industry Environment, Unit 1, Intro to Green Industry
- Module 2 – Math, Unit 3, Fractions
- Module 5 – Employment, Unit 2, The Job Search Process, continued
- Project 1 – Cutting pieces with handsaw and bit/brace

Day 5
- Module 6 – Green Industry Environment, Unit 1, continued
- Module 2 – Math, Unit 4, Estimating Materials Required
- Module 5 – Employment, Unit 3, Soft Skills
- Project 1 – Assembly
Week 2 (Days 6 through 10)

Day 6
- Guest Speaker (Green Industry Practices)
- Module 2 – Math, Unit 5, Percentages and Volume
- Module 3 – Tools, Unit 2, Power Tools
- Module 5 – Employment, Unit 3, Soft Skills, continued
- Module 5 – Employment, Unit 2, Job Search, continued
- Project 2 – Introduction to Group Project

Day 7
- Module 6 – Green Industry Environment, Unit 2, Introduction to Weatherization
- Module 2 – Math, Unit 3, Fractions, continued
- Module 3 – Tools, Unit 2, Power Tools, continued
- Module 5- Employment, Unit 2, The Job Search Process, continued
- Project 2 – Students build list of materials for project and divide tasks

Day 8
- Module 4 – Communication, Unit 1 & Unit 2
- Module 5 – Employment, Unit 3, Soft Skills, continued
- Module 2 – Math, Unit 7, Metric System
- Module 3 – Tools, Unit 2, Power Tools, continued
- Module 5 – Employment, Unit 2, The Job Search Process, continued
- Project 2 – Finalize Work Plan for group project
- Project 2 – Cut and check all pieces for group project

Day 9
- Module 5 – Employment, Unit 3, Soft Skills, continued
- Project 2 – Approve group project for final assembly
- Module 2 – Math, Unit 8, Ratios, Scale, and Proportions
- Module 5 – Employment, Unit 2, The Job Search Process, continued

Day 10
- Module 5 – Employment, Unit 2, The Job Search Process, continued
- Project 2 – Finish group project
- Module 2 – Math, Unit 9, Reading Charts and Graphs
- Project 2 – Compare and contrast group’s work
- Wrap Up