Overview

The construction industry is always changing. In this new era, the green environment is an important consideration. As a construction craft worker, you should know how daily activities at work and at home affect the green environment. With this knowledge, you can make smart choices to reduce your impact. This module explains how your daily choices make a difference. You will learn to measure your carbon footprint and reduce it. You will also learn how buildings affect the green environment and how green building rating systems work.

Learning Objective 1

Successful completion of this module prepares trainees to:

Select actions to improve your personal environmental impact at home and work.

a. Describe the major challenges buildings cause directly or indirectly on the green environment.
b. Identify choices in your personal and work life that impact the green environment.
c. Prioritize your actions in terms of which ones matter most for the green environment.

Learning Objective 2

Successful completion of this module prepares trainees to:

Identify technologies and practices that reduce environmental impacts of a project over its life cycle.

a. Describe the life cycle phases of a building and its impacts on the green environment.
b. Identify green site and landscape best practices and describe their pros and cons.
c. Identify green water and wastewater best practices and describe their pros and cons.
d. Identify green energy best practices and describe their pros and cons.
e. Identify green materials and waste best practices and describe their pros and cons.
f. Identify green indoor environment best practices and describe their pros and cons.
g. Identify green integrated strategies and describe the pros and cons of those alternatives.

Learning Objective 3

Successful completion of this module prepares trainees to:
Explain how craft workers can influence and contribute to a project’s Leadership in Energy and Environmental Design (LEED) certification.

a. Describe the LEED rating process.
b. Identify construction activities and project features that affect a project’s LEED rating.
c. List kinds of information collected during construction to support LEED documentation.
d. Identify common construction pitfalls that affect a project’s LEED rating.

**Performance Tasks**

This is a knowledge-based module; there are no performance tasks.

Recommended Teaching Time: 15 hours

**Classroom Equipment and Materials**

- Whiteboard and markers
- Pencils and paper
- PowerPoint® Presentations for Module 70101
- A variety of standard marker sizes
- Poster board
- Flip chart
- LCD projector and screen
- Computer with Internet access
- Module Review answer key
- Module Examinations