

## Green Construction Awareness Syllabus

**Time:** 8 hours

**Maximum Class Size:** 12

**Prerequisites:** None

### Course Description:

This course is designed to give the participant a basic awareness of the concepts related to "green" construction. LEED, Weatherization, Photovoltaics, Erosion Control, Process Waste Management, and SWPPP are presented and discussed. The participant will be able to immediately present an understanding of the concepts and how they relate to the jobs on which they work. Participants will exit the course with the basic knowledge necessary to work in the emerging green construction market.

### Goals/Objectives/Student Learning Outcomes:

- Explain the concept of "Green Construction"
- Explain the concept of "Clean Energy" and how it relates to the construction industry
- Identify what "LEED" stands for
- Describe the LEED rating system and LEED certification
- Describe the "Whole House Approach" concept.
- Identify the important components in building weatherization and why it is important
- Describe the meaning of Process Waste Management & Erosion control
- Identify the key components of the SWPPP on a jobsite

### Standards

The 8-hour Green Construction Awareness course addresses the following standards as they apply to "green jobs":

The **General Duty Clause** of the [United States Occupational Safety and Health Act](#) (Federal OSHA) states:

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- 29 U.S.C. § 654, 5(a)1: **Each employer** shall furnish to each of his employee's employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees."
- 29 U.S.C. § 654, 5(a)2: **Each employer** shall comply with occupational safety and health standards promulgated under this act.
- 29 U.S.C. § 654, 5(b): **Each employee** shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

### Classroom Rules and Procedures

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

### Textbooks/Readings/Materials

- Green Construction Awareness Handout
- SWPPP Handout Packet
- GCA Maintenance PowerPoint and slides
- GCA Weatherization PowerPoint and slides
- GCA Photovoltaic Awareness PowerPoint and slides
- LEED PowerPoint and slides

### Personal Protective Equipment

- 12 pairs of gloves
- 12 pairs of Safety Glasses
- 20 pairs of Ear plugs
- 12 hard hats

### Course Requirements

To receive credit for the course, participants must:

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- Be present for full eight hours
- Participate in all classroom exercises
- Pass a written exam

### **Course Policies**

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment

### **Assessment and Grading**

Participants will be assessed on the following:

- All written exams must be passed with a score of 80% or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of 80% or above.

### **Safety**

Failure to maintain and use PPE may result in dismissal from the course.