



OFFICE FOR ASSESSMENT OF PROFESSIONAL AND
WORKPLACE LEARNING

ACADEMIC PROGRAM REVIEW
of

GREEN AWARENESS UNION CERTIFICATION
GRANTED BY THE
US GREEN BUILDING COUNCIL (USGBC)

REVIEW DATE:
FEBRUARY 28, 2013

Effective Dates:
January 2011 – February 2018

Table of Contents

Profile of US Green Building Council.....3

Academic Program Review Team Members.....5

Index of Certificate/Credit Recommendations.....6

Individual Certificate Sheet.....7

Review Summary.....8

U.S. Green Building Council (USGBC)

The U.S. Green Building Council (USGBC) and its community are changing the way buildings and communities are designed, built and operated.

We believe in better buildings; places that complement our environment and enhance our communities. Places that give people better, brighter, healthier spaces to live, work and play. Green building is a win-win, offering both environmental and economic opportunity. Greater building efficiency can meet 85 percent of future demand for energy in the United States and a commitment to green building has the potential to generate 2.5 million jobs.

Who we are

USGBC is made up of tens of thousands of member organizations, chapters and student and community volunteers that are moving the building industry forward in a way that has never been seen before.

We are a diverse group of builders and environmentalists, corporations and nonprofits, teachers and students, lawmakers and citizens. Today we are 77 chapters, 13,000 member organizations and 181,000 LEED professionals strong that share the same vision of a sustainable built environment for all within the next generation.

What we do

We are transforming the building landscape in a number of ways. Here is some of our best known work:

- [**LEED**](#) — The most widely recognized and widely used green building program across the globe. LEED is certifying 1.6 million square feet of building space each day in more than 130 countries. LEED is a certification program for buildings, homes and communities that guides the design, construction, operations and maintenance. Today, nearly 50,000 projects are currently participating in LEED, comprising more than 8.9 billion square feet of construction space.
- [**Greenbuild International Conference & Expo**](#) — The world's largest conference and expo dedicated to green building. Each year, tens of thousands of professionals from all over the world attend this can't-miss event.
- [**Advocacy**](#) — At every level of government, USGBC provides policymakers and community leaders with the tools, strategies and resources they need to inspire action toward a sustainable built environment.
- [**Credentials**](#) — The LEED Green Associate credential and the various LEED AP credentials offer professionals a designation designed to help them stand out in the building industry. The LEED Green Associate and LEED AP credentials help demonstrate knowledge in sustainable design, construction, operations and maintenance of buildings and communities.
- [**Education**](#) — USGBC provides green building educational programs in a variety of formats for professionals from all sectors of the building industry. Thousands of

designers, builders, suppliers and managers have attended our seminars. All USGBC educational offerings support the LEED professional credentials

- [Chapters](#) — Through an actively engaged network of over 79 regional USGBC chapter organizations, our reach is nationwide with resources, education and networking opportunities in every community.

The US Green Building Council is a registered provider with the American Institute of Architects Continuing Education systems, the Construction Specifications Institute, and the Green Building Certification Institute.

About Green Awareness Union Certification:

This certification includes an introduction to basic concepts in green building using the LEED system as well as an introduction to mechanical insulation in facilities design and performance.

Source of Official Student Records: *TBD*

For further information about the review, contact: Office for Assessment of Professional and Workplace Learning, Thomas Edison State College, 101 West State Street; Trenton, New Jersey 08608-1176, (609) 633-6271; apr@tesc.edu.

MECHANICAL INSULATION
GREEN AWARENESS TRAINING UNION CERTIFICATION
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Certification Sheet

Name of Credential: Green Awareness Training Union Certification

Credential Description: This certification includes an introduction to basic concepts in green building using the LEED system as well as an introduction to mechanical insulation in facilities design and performance.

Effective Date: January 2011 – February 2018

Learning Outcomes: Upon successful completion of this credential, the student will be able to:

- Describe green building and the role of USGBC and LEED.
- Describe the advantages and benefits of green design, construction and performance.
- Explain the environmental and cost savings in green facility design, construction and performance
- Describe how mechanical insulation works and how it benefits both the environment and the consumer.
- Describe the importance of mechanical insulation in green facilities.
- Recognize the insulator's role in facility energy efficiency.
- Recognize the usefulness of the 3E Plus computer program in green facility design.

Major topics covered in this certification and exam:

- Sustainable Sites
- Innovation in Design
- Indoor Environmental Quality
- Water Efficiency
- Energy & Atmosphere
- Material & Resources

Assessment criteria: This certification assumes completion of both LEED 101 and Green in Mechanical Insulation as well as successful completion (70%) of a written exam completed after both courses.

Credit Recommendation: In the lower division associate/baccalaureate degree category, 1 credit in Alternative Energy Technologies.

Credit Rationale: The recommendation rests on a consideration of the number of contact hours as well as the introductory nature of the material covered.

Review Summary

The team includes the following comments based on their review of this certification:

- The credit evaluation of this certification could be increased in several ways:
 - Include evaluation of the group activities
 - If potential trainers are participants, add education/training techniques and theory
 - Increase the number and complexity of the practical exercises
 - Include pre work as an assignment

- Mechanical insulation (i.e., insulation used on pipes, ducts, and equipment) makes a major contribution to the energy efficiency of buildings and other facilities. Currently, a building designer or owner gets no LEED credits for the mechanical insulation within his building design. We recommend that LEED start crediting mechanical insulation.