

EGY 115 - RESIDENTIAL ENERGY EFFICIENCY

Course Description

This course provides a broad spectrum of information regarding basic residential energy conservation. Through structured classroom and hands-on skill building, the student will learn about the principles of energy, building shell construction, air leakage, insulation, windows and doors, heating, lighting, cooling, water heating, health, and safety. This course, or its equivalency, is a required class for the Renewable Energy Certificate Program. Group 2 course.

Credit Hours

3

Contact Hours

3

Lecture Hours

3

Course Learning Outcomes

Knowledge:

- Describe principles of Renewable Energy.
- Define properties of Insulation and Environmental influences in a home.

Application:

- Research information regarding the construction of a building shell.
- Calculate values associated with air leakage and insulation.
- Discuss the impact on health and safety.

Integration:

- Design methods to improve quality of life in the every-day home.

Human Dimension:

- Recognize the effort required to improve quality of life in their own homes.
- Reflect on society's reluctance to make many energy efficiency changes.

Caring - Civic Learning:

- Consider the measures used to improve home quality.
- Advise home-owners on how to make their home healthier and safer environmentally.

Learning How to Learn:

- Initiate the techniques most appropriate for real-world applications.