

## Energy Awareness

“Buildings use more than 40% of the world’s energy and consumption is rising.”

World Business Council for Sustainable Development



This 3-hour session is a basic introduction to the energy problems that we face in the world today. The course looks at the growing worldwide demand for energy and discusses the issues associated with producing energy to meet that demand, including global warming, limited resources and pollution. Through a summary of basic energy principles and potential energy conservation measures, we will explore the concept of building life cycle management, a long-term integrated approach that helps businesses to manage total life cycle of their buildings and assets for more sustainable and energy-efficient consumption patterns.

### Audience

This course is an awareness course that can help you to be more conversant in energy principles and the concept of building life cycle management. It is intended for anyone interested in the subject matter.

### Major Topic Areas

Major topic areas included in the Energy Awareness program:

- **Section 1. Energy Principles.** How energy works, where it comes from, and how we can reduce usage.
- **Section 2. Energy and the Environment.** Takes a look at the three main energy challenges: increasing demand, pollution and global warming. You'll calculate your carbon footprint and look at ways to reduce energy consumption.
- **Section 3. Importance of Buildings and Energy Management.** How can you conserve energy in a building? Learn ways to reduce energy consumption and find out more about related programs and legislation.
- **Section 4. Building Life Cycle Management.** If you look at your facility over its entire operational life, you'll begin to see it as an investment and not just a shell to house your business. Investing in a facility can actually create return, especially in terms of energy savings.

## Materials

The primary training resource is *Energy Awareness*, TAC, 2007. Each attendee receives a student guide, course notes and reference material useful both during the course and after returning to work.

## Certification

Each participant receives a certificate of attendance and 0.3 Continuing Education Units (CEU).

## Other Related Courses

- **Green Awareness.** This 2-day session provides introductory level training of what it means to be “green” in terms of commercial mechanical operations, which refers to maximizing the energy efficiency of existing equipment, specifying energy-efficient systems, using renewable and sustainable fuel sources, and conserving water.
- **Sustainable Building Operations Clinic.** This 2-day clinic provides introductory level training in managing energy costs in office buildings. Topics include managing energy costs in office buildings, sustainable operations and maintenance, and making green purchasing decisions.
- **My System Training.** System training is one of the most important aspects of system turnover. Without it, even a perfectly designed, installed and optimally operating system is likely to degrade over the first few months of operation. This session is customized for your O&M staff.
- **Building Operator Certificate – Level 1.** This is the first of two certificate programs for Building Operators. Energy-efficient operation is an integral focus of this program. The Level 1 course series consists of 8 one-day classes offered over a period of multiple weeks.
- **Building Operator Certificate – Level 2.** This is the second of two certificate programs for Building Operators. Level 2 is designed for O&M staff that is experienced and responsible for overall facility operation and maintenance. This series consists of 7 one-day classes offered over a period of multiple weeks.

## Need to Know More?

Call toll free 1-800-522-0372 and ask for Ernie Allen, Director, Corporate Education. Or, e-mail him at [ernie.allen@thinkESI.com](mailto:ernie.allen@thinkESI.com).

**ESI (Environmental Systems, Inc.)**

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