Environmental Systems
UNIVERSITY

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 custom-designed for your O&M staff to enable them to operate the building in an energy-efficient manner, ensure long equipment life, and address changes in building use.

Typically, this training is delivered in multiple sessions organized into logical system types and presented by multiple subject matter experts including designers, engineers, product specialists, and contractors.

The primary training resource for this training is your O&M Manual, which is likely to include system drawings, diagrams, product data sheets, and more.

Audience

This course is intended for:

- Building Owners and Operators
- Facilities Managers and Maintenance Personnel
- Commissioning Agents
- Service Contractors

Major Topic Areas

Major topic areas included in My System Training:

- **Section 1. Operating Parameters.** What are the systems designed to do? What are they not designed to do? Without this basic information, O&M staff may be tempted to tweak systems to deliver conditions they are unable to provide.
- **Section 2. Basis of Design.** This section provides an overview of system design – why were certain design decisions made.
- **Section 3. Understanding Schematic Drawings and Riser Diagrams.** The goal of this section is to enable O&M staff to take schematic drawings and riser diagrams into the building and locate major systems, sub-systems, and system components by physically tracing pipes, ducts, and other structures.
- **Section 4. Sequence of Operation.** Participants review the control strategies for all modes of operation. This discussion includes seasonal changes, occupied, unoccupied, economizer, emergency override, and other modes as may exist.
- **Section 5. System Integration.** After reviewing individual systems, the learner is given detail on system interaction. Which systems can initiate an action and what responses are required from the target system? What communications protocols are used? How are desperate systems integrated into one user interface?

Materials

The instructors use design drawings, system architecture drawings and riser diagrams, sequences of operation, and other system documentation to present this class. Each attendee has access to this documentation as well as course notes and reference material useful during the course and when you return to work.

Certification

Each participant receives a certificate of attendance. By participating in this session, you will receive Continuing Education Units (CEU) appropriate for the length of the course.

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. When it comes to mechanical systems, green means maximizing the energy efficiency of existing equipment, specifying energy-efficient systems, using renewable and sustainable fuel sources, and conserving water.
- **Energy Awareness.** This 3-hour session provides an introduction to basic energy principles and potential energy conservation measures.
- **Niagara^{AX} End-User Training.** This 3-day session provides introductory level training for the end-user programmer audience in the concepts and use of the Niagara^{AX} solution.
- **Niagara^{AX} Technical Certification Program.** This 5-day certification course is designed to develop the expertise necessary to effectively design, engineer, and support projects using the Niagara^{AX} Framework.
- **Niagara R2 End-User Training.** This 3-day session provides introductory level training for the end-user programmer audience in the concepts and use of the Niagara Release 2.X.
- **Niagara R2 Technical Certification Program.** This 5-day certification course is designed to develop the expertise necessary to effectively design, engineer, and support projects using the Niagara Release 2.X.

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.

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