



Greater efficiency supports patient care.

Access Energy Education and Achieve Certification through Energy University

All ECM content was independently developed and reviewed to be vendor, product and service provider-neutral.

Description



[Energy University](#) is a program of e-learning courses focused on major aspects of energy efficiency. These courses provide the information needed to identify, monitor and manage energy use in order to find new ways to create simple and effective energy-efficient solutions in any building or structure.

Project Talking Points

- Energy University offers a free, online education toolset specific to energy efficiency, facility management and facility operations and maintenance (O&M).
- Energy University offers facility operations staff opportunities to gain continuing education unit (CEU) credits and certifications. It also offers ways to learn about how energy systems can work efficiently and sustainably.
- CEUs acquired can be used toward the American Hospital Association (AHA) certifications: Certified Healthcare Facility Manager (CHFM) and Certified Healthcare Constructor (CHC).
- Energy University CEUs are also recognized by other industry organizations such as the International Facility Management Association (IFMA), Building Owners and Managers Association (BOMA), Association of Energy Engineers (AEE) and Association for Facilities Engineering (AFE). See the [Energy University website](#) for a full list.
- The American Society for Health Care Engineering (ASHE) promotes professional development and continuing education for facility managers and operators. It has endorsed three certification tracks in Energy University: facility manager, energy manager and technician/mechanic.
- Energy University provides automatic reminders to help users complete in-session coursework.
- Energy University training and education increases the value and efficiency of staff working on energy issues with little to no investment cost.
- Energy University provides cross-training for staff on various infrastructure systems for improved results.
- Continuing education encourages the professional growth of existing staff, leading to higher job satisfaction and increased staff retention.

- Energy University offers more than 180 courses. Not every ECM has an associated Energy University course and not every course has a connected ECM.

Benefits

- **Cost benefits:** Reducing costs starts with understanding building systems, energy consumption and energy management and the relationship to operating costs. Courses elsewhere can cost thousands of dollars, but Energy University offers a comprehensive course list for free.
- **Environmental benefits:** An educated staff creates a culture of energy consciousness that will lessen a facility's impact on the environment. Reducing energy use reduces environmental impacts from energy production.
- **Social benefits:** [Energy University](#) content gives employees a platform for professional growth and improved job satisfaction. An educated and satisfied staff will better serve the organization's ultimate customers – patients.

How-To

For staff not seeking certification:

1. Go to the Energy University [College of Energy Efficiency](#) webpage to review the list of available courses. You can click on the course title to learn more about a course, or link to a specific course referenced in a roadmap ECM.
2. Go to the "To register" heading.
3. Register yourself and begin the coursework. At any time after you complete a course, you can print your certificate of completion. You can submit your certificates to receive ASHE CEU credits or credits from other relevant organizations.

For facility engineering staff seeking certification:

1. Formalize the program by making it a specific part of your department's continuing education program.
2. Create an education task force or make Energy University part of an existing program. Include the vice president of facilities/operations, facility director/manager or other manager to be the liaison/lead and an administrator who will help administer, track and monitor staff participation. Check with your facility's human resources department to see if they will track participation in these programs in each employee's file.
3. Choose appropriate courses. Three learning pathways have been created to help each user choose courses that will provide a solid foundation in comprehensive energy management. ASHE has developed pathways through the Energy University course offerings for:
 - **Facility managers:** These courses include topics such as financial analysis of projects, demand response with smart grid and distributed generation.

- Energy managers: These courses cover subjects such as energy procurement options in regulated and deregulated markets, ways to balance hedging strategies and methods for measuring and benchmarking energy performance.
 - Technicians and mechanics: These are foundational courses on building systems, including sessions on pumps, heating, ventilation and air conditioning (HVAC) systems, fans, compressors, steam systems and building controls.
4. Identify training requirements versus optional courses. Establish annual goals for coursework completion and include these in staff goals/requirements.
 5. Identify and clearly articulate time requirements for taking the courses, and provide staff with time to complete the coursework by specified deadlines. Minimum required training hours by certification:
 - Facility managers: 13 hours
 - Energy managers: 10 hours
 - Technicians and mechanics: 18.75 hours
 6. Have managers promote participation in the certification programs at staff meetings.
 7. Recognize individuals as they complete development paths by awarding certificates and marketing skills both internally and externally.
 8. Track program performance. Survey participants about their satisfaction with the program. Ask whether the training made a difference in their processes and in facility operations.

To register:

1. Visit the Energy University [website](#).
2. Click "Register."
3. Fill out the required information.
4. For first-time users, please take the introductory course to become familiar with navigation of the Energy University platform.
5. If you need a certificate of completion for any reason, print a certificate from the Energy University website when you have completed the course.

Regulations, Codes and Standards, Policies

Some training and education programs are required by local, state or federal regulations, such as boiler operator, incinerator operator and HazWhopper certifications and DOT (Department of Transportation) training. Check with your organization's human resources department or education coordinator to confirm state or federal requirements. Most of the Energy University requirements are good practice and may become internal policies of your organization. If so, write a formal training policy and include these certification course requirements in your organization's job descriptions.

ECM Descriptors

Energy

Category List:

- Strategic operations
- Training and education

ECM Attributes:

- Energy
Optimize operations
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Improvement Type:

- O&M

Department:

- Engineering/facilities management