Energy Management 2014 CERTIFICATION July 7th To July 18th

"After applying my project from the Energy Management Certification program my company now saves approximately \$110,000 per year - an incredible savings!"



Excellent Instruction & Consultation







Energy Management Certification (EMC) from NWEEI can significantly enhance your energy management credentials — and your value in the marketplace.

The EMC is designed to teach a broad spectrum of energy management principles and techniques. Utilizing industry experts as instructors and guest speakers not only guarantees a high-quality curriculum but one based upon actual field experience. Each expert presenter covers their specialty topic, such as building energy use, glazing, insulation, building envelope, heating/cooling, secondary HVAC, controls, central plant equipment, energy auditing, conservation, and maintenance.

The Result?

Students develop the skills to evaluate and prioritize all energy-related projects based on energy cost savings and return-on-investment.

* NWEEI's guarantee for a return on your training investment is contingent upon the participant's successful completion of the required energy efficiency project.

Reasons to Attend

- Build experience quickly.
- Broaden your knowledge base in energy management.
- · Accept greater job responsibility.
- Stay abreast of the most current information.
- Enjoy recognition within your field.
- Earn higher pay with certification.
- Meet notable experts in energy management.





EMC is the only certification program that requires each student to implement an efficiency project, resulting in immediate hands-on experience for the student, and rapid energy savings for the student, employer or client.

Implement What You Learn

Our goal is to provide measurable results for both individuals and organizations. In the final phase of the certification program, students must demonstrate their understanding of energy efficiency principles and practices through the actual implementation of an energy efficiency project of their choosing. With guidance and support (including an equipment library) each student selects a project based on maximum return-on-investment and/or energy savings.

Who Attends?

- » Engineers
- » Technicians
- » Architects
- » Facility, Maintenance & Energy Managers





advanced certification for Energy Pros

Energy Management Certification (EMC) from NWEEI is an advanced certification program for energy managers and professionals.

The certificate emphasizes hands-on experience while students learn from experts.



The course runs July 7th-July 18th 2014

Students begin gathering data for class one month prior to this date; therefore, we encourage *registration by June 1, 2014.*

Where?

Participants stay in-residence at the Downtown Campus in Eugene, Oregon for the on-site portion of the program.

What 's Included?

- » 4-part certification program
- » Extensive reference materials
- » Energy Efficient Commercial Building Operation by Peter Herzog
- » Institute staff support throughout the program year
- » Room and board during the 2-week workshop
- » Framed certificate of completion from NWEEI

Cost

The cost of the EMC course is \$4,500 and includes room and board during the 2-weeks at Lane Community College. Graduates of the program have reported substantial energy savings from EMC projects, resulting in a payback on their educational investment of two years or less.



Registration

Register for the EMC course via our convenient 1-page online registration form.

Payment





Credit Cards, Checks & Purchase orders. Please make checks out to Lane Community College. nweei.org/register-today

phone **541-463-6160**

Cancellation Policy

Cancelations 2 months prior to start of the workshop will be issued a full refund less \$200 handling fee; less than 2 months a 50% forfeit fee. Participant substitutions are allowed. NWEEI reserves the right to cancel up to 2-weeks prior to start of workshop if a minimum number of registrations is not met.

"EMC is the fastest way to learn all about energy management. The instructors taught me comprehensive, real-world techniques that I immediately applied at work, and the payback for my employer will be less than two years."

- Andy Rhodes, Operations Manager | Thomas Properties Group

EMC consists of four parts: pre-workshop prep, classroom instruction, workplace project, and presentation of results.

Pre-Workshop Prep | June 7-July 7, 2014

The pre-course assignment is designed to make sure all students are beginning the workshop from the same fundamental knowledge base. The assignment requires students to review an actual energy audit report and find intentionally placed errors. The purpose is to familiarize students with a formal audit reporting style, calculations used in energy analysis, and typical energy measures.



In-residence Workshop | July 7-July 18, 2014

During the classroom portion of EMC, students are immersed in energy efficiency fundamentals and practices. The intensity of this portion of the program demands that students work extended hours, including two evenings and one Saturday, July 12th. The curriculum consists of:

- » Day 1 Introductions & Overview
- » Day 2 Energy Systems Overview
- » Day 3 Lighting
- » Day 4 Electrical Fundamentals
- » Day 5 Glazing, Insulation & Envelope
- » Day 6 Heating & Cooling Fundamentals
- » Day 7 Secondary HVAC Systems
- » Day 8 Plant Equipment
- » Day 9 Controls Fundamentals
- » Day 10 Energy Auditing I
- » Day 11 Energy Auditing II

Workplace Project | August 2014 to July 2015

Students return to their place of employment where, based upon information obtained during the workshop, they design an energy efficiency project that meets their organization's energy efficiency goals. Following successful implementation

of an approved project students gather quantifiable data on their projects in order to measure and verify savings.

Certification | Summer 2015+





Learn from Leaders

EMC is more than classroom instruction — It is an opportunity to learn from a diverse team of expert energy efficiency practitioners, building systems specialists, and industry leaders in a close-knit environment.

This wide array of disciplines gives you a versatile energy efficiency knowledge base which can be used to make wiser energy decisions and formulate new innovative efficiency solutions.



The Northwest Water and Energy Education Institute (NWEEI) offers learning opportunities for practicing professionals in the water and energy industries. Customized training is offered for professionals around the Northwest, Nationally and Internationally.



LANE COMMUNITY COLLEGE DOWNTOWN CAMPUS

— welcome to our state-of-the-art lab

Built to LEED Standards (Residential - LEED Gold | Academic - LEED Platinum) it boasts energy-saving and sustainable features that are state of the art. The diversity of mechanical systems located within the building and buildings nearby makes it the perfect "lab" for the EMC.

Features Include:

- » Passive Ventilation
- » Geothermal Ground wells
- » Green Roof
- » Extensive Building Controls
- » Natural Daylighting
- » Rainwater Reuse

- » High-Performance Envelope
- » Lighting Lab
- » Solar PV & Solar Thermal
- MultipleMechanicalSystem Types

It's not uncommon for our instructors to take the class on short walking tours to point out real life examples of concepts from their presentations. During the energy-auditing portion of the course the building and its systems will be used for hands-on field work as students learn to configure and deploy energy monitoring equipment and analyze the results.



Sign up Today. It's Easy! Go online and click "Register Today"

NWEEI.ORG/EMC

Class size is ideal for personalized interaction and limited to 15 students.

PRSRT STD US Postage Paid Eugene OR Permit No. 94

Registration Deadline is June 1, 2014!

Eugene, Oregon 97401

Class size is ideal for personalized interaction and limited to 15 students.

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nweei.org/emc

Guaranteed Return On Your Investment*