



# Building Operator Certification



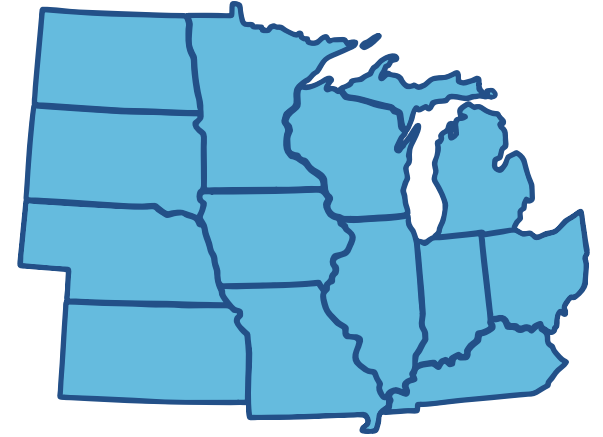
MCCFMA Fall Conference

11/6/2025

# Who We Are

The Midwest Energy Efficiency Alliance (MEEA) is a collaborative network, promoting energy efficiency to optimize energy generation, reduce consumption, create jobs and decrease carbon emissions in all Midwest communities.

MEEA is a non-profit membership organization with 170+ members, including:



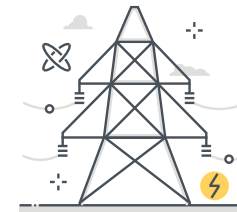
Energy Service  
Companies &  
Contractors



State & Local  
Governments



Academic &  
Research Institutions



Electric &  
Gas Utilities



Community-based  
Organizations

# Building Operator Certification (BOC) Overview



**Training and certification** program with more than 20,000 graduates in 20+ years



Focus: **energy efficient** building operations and preventative maintenance procedures



Target audience: **building operators** (facility managers, building engineers, HVAC technicians, etc.) with 2+ years of experience working in a building that is 50,000 square feet or larger



Requires **60 hours of classroom time and 10 hours of project work**.  
Class typically meets every other week for three (3) months with unique, expert instructor for each session.



Graduates earn **Training Certificate of Completion** and are eligible to take exam to become a Certified Building Operator (CBO)



Learn more: [www.boccentral.org](http://www.boccentral.org), [moc@mwalliance.org](mailto:boc@mwalliance.org), 855.420.1785



# BOC Training Curriculum



## BOC Level I: Building Systems Maintenance (General or Multifamily)

- Knowledge and skill enhancement related to **energy efficient building operations**
- Assignments demonstrate competence in locating building equipment, distribution pathways and control points; benchmarking energy and water use; researching utility incentives and more
- Eight (8) full-day sessions in-person or 16 half-day sessions online. Approximately **75 hours** required. Two (2) years previous experience recommended

## BOC Level II: Improving Building Operational Performance

- **Evaluating the operational performance** of the building with a focus on energy efficiency
- Assignment focuses on **data collection and analysis** with a final scoping report and presentation to peers
- Seven (7) full-day sessions in-person or 14 half-day sessions online. Approximately **60 hours** required. Four (4) years previous experience recommended.

## Fundamentals of Energy Efficient Building Operations

- **Basic principles** of energy efficiency awareness and practices in commercial buildings
- Ideal for those whose work intersects with building operations or are considering it as a career
- Three (3) full-day sessions or 6 half-day sessions. Approximately **18 hours**. No previous experience needed

# BOC Class Topics



## Level I: Building Systems Maintenance

1. Energy Efficient Operation of Building HVAC Systems
2. Measuring and Benchmarking Energy Performance
3. Efficient Lighting Fundamentals
4. HVAC Control Fundamentals
5. Indoor Environmental Quality
6. Common Opportunities for Low-Cost Operational Improvements
7. One topic will vary: smart features, electrical systems, O&M practices, ventilation strategies, energy recovery, etc.

## Level II: Improving Building Operational Performance

1. Building Scoping for Operational Improvements
2. Optimizing HVAC Controls for Energy Efficiency
3. Introduction to Building Commissioning
4. Water Efficiency for Building Operators
5. Project Peer Exchange: Present Your Final Report
6. One topic will vary: motors in facilities, preventative maintenance principles, mastering electric control circuits

## Fundamentals

1. Energy Efficiency and Sustainability Overview
2. HVAC Fundamentals
3. Lighting Fundamentals
4. Energy Management
5. Energy Conservation Opportunities
6. Indoor Environmental Quality & Putting It All Together



# BOC Benefits



- Multiple evaluations show that graduates:
  - Substantially cut operating costs - as much as \$20,000 per year
  - Enhance occupant comfort
  - Improved preventative maintenance
  - Identify new operational efficiencies

## Summary of BOC Energy Saving Evaluation Results from 2000-2022

	kWh	kW	Therms
Average Annual Savings Per Credentialed Operator	99,800	14.4	1,410
	Range 27,000 – 181,000	Range 9 – 37	Range 36 – 3,104
Average Savings Per Square Foot	0.30	*	–
	Range 0.02 – .50	Range –	Range –
Average % Energy Savings Per Credentialed Operator	2.5%	–	–

<https://www.theboc.info/why-boc/energy-savings-evaluation-reports/>



WOULD RECOMMEND  
BOC TO A FRIEND



9/10 GRADS COMPLETE  
AN ENERGY-SAVING PROJECT  
AT THEIR FACILITY



MANY GRADS RECEIVE  
PROMOTIONS, RAISES OR  
BONUSES AFTER BOC

# BOC in Minnesota



## Regional Online Courses (Anyone in the Midwest)

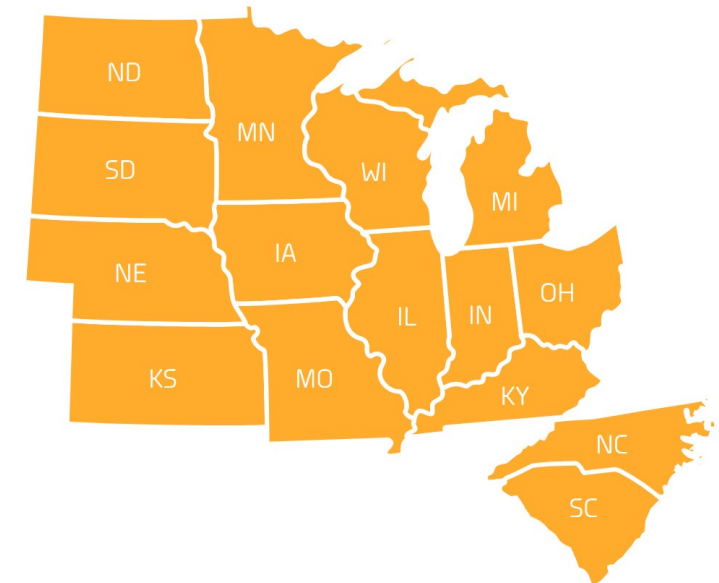
- [BOC Level I online](#) February 25 - May 21, 2026.  
Wednesdays and Thursdays from 9am-12pm CT.
- More will be announced soon! Visit [www.boccentral.org/training](http://www.boccentral.org/training) for an up-to-date list

## Minnesota-Specific Training

- In-person and closed online courses can be offered if minimum student thresholds are met
- Partners:
  - State of Minnesota
  - Hennepin County
  - City of Minneapolis

## Tuition and Incentives

- Standard tuition for Level I, Level II: \$1,695
- Partial tuition reimbursements offered by: MN Power, SMMPA, Xcel Energy, CenterPoint Energy, Missouri River Energy Services, Minnesota Energy Resources, City of St. Louis Park





# Opportunities to Work Part-time with BOC

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## Become a BOC Instructor or Coordinator

- Qualifications include:
  - Field experience in one or more of the subject areas of interest
  - A teaching certification or experience providing instruction to working professionals in a related field
- Instructors are paid \$900 / session and typically teach 2-10 sessions per year
- Coordinators are paid \$550-\$750 / session and typically work 8-25 sessions per year
- Here is the [application form](#). Email [boc@mwalliance.org](mailto:boc@mwalliance.org) for more information.

## Teach a BOC Continuing Education (CE) Webinar

- We offer free webinars throughout the year and are always looking for topics and presenters
- [Submit your idea to this survey](#). Webinar instructors will receive a \$500 honorarium
- Webinar topics must:
  - Be applicable to building operators throughout the entire Midwest region
  - Fill one to two hours



# Questions

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Learn more:

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- 855.420.1785