



**Building Operator Certification
Level I Training Schedule
Retrofit Chicago Initiative
Chicago, IL**

Building Operator Certification training includes 74 hours (7.4 CEUs) of classroom and project work in building systems maintenance. Training begins at 8:00 a.m. and ends by 4:00 p.m. Early registration is encouraged. *The Registration deadline is Thursday, March 7, 2013.*

MEEA – Civic Opera Building 20 N. Wacker Dr., Suite 1301 Chicago, IL 60606	
Date	Course
Thursday, March 14, 2013	BOC 101 – Building Systems Overview
Thursday, March 28, 2013	BOC 102 – Energy Conservation Techniques
Thursday, April 11, 2013	BOC 107 – Facility Electrical Systems
Thurs-Fri, April 25-26, 2013	BOC 103 – HVAC Systems and Controls
Thursday, May 9, 2013	BOC 104 – Efficient Lighting Fundamentals
Thursday, May 23, 2013	BOC 106 – Indoor Environmental Quality
Thursday, May 30, 2013	BOC 105 – O&M Practices for Sustainable Buildings

Contact:

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Or visit: www.boccentral.org for more information including links to registration.

Tuition for the training is \$1,250 per student. Each student enrolled in BOC is eligible to earn a \$500 rebate upon successful completion of the training. The rebate is issued to the party that paid the tuition.

The Cook County Workforce Partnership (CCWP) has ARRA SESP funding available for Building Operators that are *residents of Cook County*. Funding from CCWP will cover \$750 of the \$1,250 tuition. The remaining \$500 is paid by the employer to MEEA before the training series begins. Applications to receive SESP funding are submitted directly to CCWP by the student or the student’s representative.

BOC in Illinois is brought to you by the Midwest Energy Efficiency Alliance with generous support from the Illinois Energy Office, ComEd, Nicor Gas, People’s Gas and North Shore Gas.



**Illinois
Department of Commerce
& Economic Opportunity**
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PEOPLES GAS
NATURAL GAS DELIVERY



BOC COURSE DESCRIPTIONS

BOC 101 - BUILDING SYSTEMS OVERVIEW (1 DAY)

Provides an overview of preventive maintenance, energy efficiency principles, and fundamentals of building systems, equipment, and operations. Reviews heating, cooling, ventilation and control systems, water, lighting, and indoor air quality. Covers system interaction and relationship to overall building performance.

Provides a foundation for later courses.

PROJECT: Facility and Equipment Floor Plan

BOC 102 - ENERGY CONSERVATION TECHNIQUES (1 DAY)

Helps operators gain a better understanding of how energy is used in commercial buildings and how to identify and prioritize conservation opportunities. Includes basic principles of energy accounting, evaluation of fuel options, operation and maintenance strategies to improve efficiency, and energy management planning technique.

PROJECT: Energy Use Profile for Facility

BOC 103 - HVAC SYSTEMS AND CONTROLS (2 DAYS)

Focuses on operation and maintenance of equipment and components typically found in commercial buildings, including central heating, cooling, air and ventilating systems in buildings. Provides an introduction to automatic control systems and equipment, particularly for central air systems. Emphasis is placed on group problem solving and exercises with respect to preventive maintenance.

PROJECT: Heating System Operational Review

BOC 104 - EFFICIENT LIGHTING FUNDAMENTALS (1 DAY)

Covers lighting fundamentals and types of lighting for economical and energy-efficient lighting systems. Participants learn the principles of efficient lighting including evaluation of lighting levels, quality and maintenance. Other topics include lighting fixture and control technologies, common upgrades, retrofit and redesign options, and lighting management strategies as they apply to space use and function.

PROJECT: Lighting Survey for Facility

BOC 105 – OPERATION AND MAINTENANCE PRACTICES FOR SUSTAINABLE BUILDINGS (1 DAY)

Focuses on a set of best practices for operations and maintenance that create and sustain green or high performance buildings. National green building rating systems such as LEED® and tools through ENERGY STAR® for evaluating the sustainability of the existing buildings are discussed. Students will learn to identify and apply O&M practices for improving the performance of existing buildings and newly designed green buildings.

BOC 106 - INDOOR ENVIRONMENTAL QUALITY (1 DAY)

Introduces the basic causes of indoor environmental quality problems and begins to develop a method of diagnosis and solution. Students will gain an understanding of the dynamic components of indoor environmental quality in relation to source control, occupant sensitivity and ventilation. Emphasis will be placed on communications with building occupants for reliable investigations without aggravating existing issues.

BOC 107 - FACILITY ELECTRICAL SYSTEMS (1 DAY)

Develops an understanding of how electricity is distributed in a facility and common electrical distribution problems. This course will emphasize the fundamentals of electricity and its application to the workplace.

PROJECT: Electrical Distribution Sketch for Facility