

of Certification

For building management:

- increased employee capability and productivity
- improved efficiency through employee cross-training
- facility assessments and recommendations through student study projects
- reduction of utility bills and unscheduled maintenance
- demonstration of commitment to employee growth
- increased facility safety, comfort and air quality
- preparation for changing needs in facility management

“The knowledge and practical applications gained from BOC will save us many times the money spent through better use and maintenance of the older **equipment we have**” *Darrell Buffaloe, ISU, Director of Maintenance*



270 N. 27th St., Ste. B
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Building Operator

CERTIFICATION

Excellence
in Facility Operation
and
Energy Efficiency



The Real Advantages

For building operators:

- the most up-to-date facilities management training
- knowledge of total facility operations
- increased opportunities for advancement
- demonstration of your professional commitment
- declaration that you can deliver top quality work that will save money
- a vital collection of facility operations reference materials

“...BOC should be a requirement for all engineering departments. The training provided invaluable information for the efficient **operation of any large facility.**” *Clint Aldrich, Gritman Medical Center*



What is Building Operator Certification (BOC)?

BOC is certification of facility operations and maintenance staff for energy efficient operation

How do I become certified?

Certification requires successful completion of six day-long courses in facility maintenance and operation.

What will I get from the BOC training and certification?

- The most current know-how in building operations
- Expansion of your current skills to overall facility maintenance and operation
- Increased opportunities for employment advancement
- A regional registration of your BOC certification- recognized in Washington, Oregon, Idaho and Montana
- A BOC certificate and clothing patch.
- A newsletter published quarterly to bring you news about training and re-certification opportunities.

What are the training course topics?

Level 1

BOC 101 - Energy Conservation Techniques

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 option, operation and maintenance strategies to improve efficiency, and energy management planning techniques.

BOC 102 - HVAC Systems

Focuses on operation and maintenance of equipment and components typically found in commercial buildings, including central heating, cooling, and air and ventilating systems. Emphasis placed on group problem solving and exercises with respect to preventative maintenance.



BOC 103 - Air Systems

Covers energy-efficient operation of central air systems utilized in heating, cooling and ventilation of buildings such as, all-air systems, central air-handling units, air distribution, air systems terminals, ventilation, and air balance. Main objective is to identify basic elements and grouping of elements into systems in combination with increasing awareness of energy conservation opportunities.

BOC 104 -Controls

Introduces automatic control fundamentals, systems, and equipment, particularly for central air systems.

BOC 105 - Lighting

Covers lighting fundamentals and types of lighting for economical and energy efficient lighting systems. Participants learn 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 management strategies.

Level 2

Topic 1 - Heating, Ventilating & Air Conditioning

Covers energy efficient operation and maintenance of HVAC systems at a more advanced level. This course will provide a thorough in-depth working knowledge of HVAC equipment and systems typically found in operator's facilities. The three day course consists of approximately 12 hours of classroom instruction and field trips.

Topic 2 - Energy Management

Covers energy management, strategies and energy conservation methods. This course goes into ECOs and ECMs and provides in-depth knowledge of energy management techniques. The three day course consists of approximately 12 hours of classroom instruction and field

trips.

Where and when is training held?

We schedule classes in Idaho and Montana. Call IBOA at (208) 345-3072 or visit our web site at www.nwboa.org.

What will be my time commitment for Courses?

Level I requires 5 days of class attendance— 3 days the first week, 2 the second. Level II requires 6 days of class attendance – usually 3 days a week for two weeks.



Who is sending employees to the BOC trainings?

INEEL • Doubletree Hotels • St. Lukes RMC • Idaho Power • Idaho State University • Kootenai County Sheriff • City of Idaho Falls • School Districts • Idaho Dept of Corrections • Zilog • Montana Power Extended Systems • Jerome Cheese Co. • Ada County • Pacific Press • Idaho Statesman



International Building Operators Association (IBOA)

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NORTHWEST
ENERGY
EFFICIENCY
ALLIANCE

The International Building Operators Association (IBOA) is a non-profit professional organization dedicated to serving the informational and educational needs of people directly responsible for the operation and maintenance of public and private facilities. IBOA provides members with quarterly news- letters, continuing education opportunities, an annual conference, a problem-solving network and a forum for further career advancement. For an application, call 208 345-3072.

Why BOC and IBOA?

BECAUSE IBOA's BOC is the only certification program in the Northwest for your building operations personnel.

BECAUSE BOC's certification program has been nationally recognized by the Department of Energy for promotion of energy efficiency.

BECAUSE IBOA offers continuing education to building operators, allowing them to keep up with the latest in efficient building operation.

BECAUSE the cost of BOC training is far outweighed by the savings you'll realize in your yearly budget.

BECAUSE IBOA sponsors a yearly convention to keep operators in touch with the latest in maintenance and energy efficiency.