

# Engineers, Operators and Facilities Professionals

## Limited Offering at No Cost

# High Performance Building Operations Professional Training: January 20 – March 3, 2017

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This pilot training has been endorsed by BOMA, is supported by the California Community College State Chancellor's Office and a collaboration with California IOUs (Investor Owned Utilities)



The **BEST Center** is an NSF ATE National Center promoting better building performance through advancement of building science & technician education.



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### What Will Be Covered

1. Computer Skills
2. Energy Literacy
3. Building Systems
4. Whole Systems Analytics
5. Systems Manual
6. BAS (Building Automation Systems)
7. Energy Conservation
8. Commissioning
9. Continuous Quality Improvement

Classes are hands-on exercise and lab driven.

### Program Schedule

12 classes at Laney College  
8:00 am – 5:00 pm

January 20  
January 26 & 27  
February 2 & 3  
February 9 & 10  
February 16 & 17  
February 23 & 24  
March 3

Training is at no cost!

### General requirements to participate in this Pilot Training Program are as follows:

- Experience operating commercial buildings and currently employed as a Facility Lead, Chief Engineer or Assistant Chief
- Some assignments will require commitment of time to work outside of class on data collection and other outside assignments
- Basic familiarity with Building Automation Systems
- Basic computer literacy including familiarity with computer spreadsheets
- Familiarity or awareness of energy efficiency upgrades involving various controls, HVAC and lighting retrofits
- Awareness of Portfolio Manager and Energy Star
- Committed to becoming a leader in energy efficiency with the goal of transforming lower performing buildings into efficient, high performance buildings
- Employed within an organization that has strong owner/manager commitment to energy efficiency and indoor environmental quality

### LEAD INSTRUCTORS

**Hadley Hartshorn, P.E.**, holds an Engineering degree from Stanford University. He is a former U.S. Naval Civil Engineering Corps officer; with 25 years of experience in management of hospital, laboratory and commercial facilities with Kaiser Permanente prior to concluding 12 years at Lawrence Livermore National Laboratory as Construction Manager then Division Leader for Mechanical and Electrical Services. Hadley helped develop the Commercial HVAC curriculum at Laney College and has taught courses the Environmental Controls Technology Department there for over 12 years. Hadley also teaches BOC classes.

**Ted Wilinski, P.E.**: University of Wisconsin- Madison graduate with a BS and MS in Mechanical Engineering. Ted has over 30 years of industry experience in providing energy management and mechanical engineering services, which includes work with Wilinski Associates, a consulting engineering firm founded in 1990. Since 2009 Ted has developed and taught courses in Milwaukee Area Technical College's (MATC) Sustainable Facilities Operations program and he is part of the team developing new diploma program in Automated Building Systems at MATC. He also teaches BOC classes. Ted is a Professional Engineer and holds the following certifications: QcXP, LEED Accredited Professional, LEED™, OPMP, CEM, BOC II – Building Operator Certification, Level II – Northwest Energy Efficiency Council.

*Industry Leaders and Practitioners as Guest Speakers*