



Utility Bill Analysis, Energy Audits and Retro-Commissioning

May 17 - 19
Philadelphia, PA

Mechanical Service Contractors of America
1385 Piccard Drive, Rockville, MD 20850-4340
• (301) 869-5800 • www.msca.org •
Questions?

Contact MSCA Exec. Director Barbara Dolim at bdolim@mcaa.org

Back by popular demand, this three-day seminar will provide you with the skills and information you need to save your customers money by enhancing building system performance and energy efficiency.

A majority of existing buildings in the United States operate at well below optimal efficiency when it comes to energy utilization. With rising energy costs, building owners are looking for every opportunity to reduce utility costs and prolong the life of their building and equipment. Mechanical service contractors are in a position to help correct this problem by performing utility bill analysis, energy audit techniques and retro-commissioning procedures for their customer's mechanical systems.

During this program you will be provided with comprehensive information and step-by-step training for performing these procedures and gain a better understanding of their value to your customers. By being in a position to offer these services to your customers, your value as a service provider is greatly enhanced and the results of these procedures can lead to more satisfied customers, additional maintenance, repair and replacement work for your company and environmental benefits.

Day 1: Utility Bill Analysis

Monday, May 17

- Units of Energy
- Electrical Tariffs
 - Consumption Based Bill
 - Hybrid Based Bill
 - Demand Based Bill
- Historical Electrical Billing
- Natural Gas Tariffs

Day 2: Energy Audits

Tuesday, May 18

- Data Collection
- Building Evaluation
- Utility Evaluation
- Mechanical Evaluation
- Control Evaluation
- Lighting and Other
Electrical Evaluation
- Operational and Maintenance
Development
- Energy Conservation Measures

Day 3: Retro-Commissioning

Wednesday, May 19

- Development of a Building
Operation Plan
- Equipment Evaluation
- Development of a
Retro-Commissioning Plan
- Retro-Commissioning Execution
- Post Retro-Commissioning

Registration for the three-day program is \$1,350. A comprehensive manual with an auto-calculate CD will be provided and workbooks will be provided on a day-by-day basis. The program will run from 8 a.m. – 4 p.m. each day and breakfast and lunch are included. All classes will be held at the Philadelphia Marriott Downtown, and will be taught by Michael Korcal, Associate Professor in the HVACR Engineering Technology Program at Ferris State University.

Register using the form on the reverse side.



**2010 Utility Bill Analysis, Energy Audits and
Retro-Commissioning Seminar
Philadelphia Marriott Downtown
May 17-19, 2010**



Attendee Information

Name _____ Badge Name _____
 Company Name _____ Title _____
 Street Address _____
 City _____ State _____ Zip Code _____
 Registrant's E-mail _____ Work Phone _____ Fax _____

Email address to send acknowledgement of registration form receipt: _____

Registration Fee

- \$1,350 MCAAMSCA Members
 \$2,700 Non-Member

Registration Payment

Check (payable to MSCA) AMEX MC VISA
 Account Number _____ Expiration _____
 Cardholder Name _____ Billing Zip Code _____
 Signature _____

MSCA Registration & Housing Policy

Registration fee due at time of registration (all registration based on first-come-first-serve basis – class size limited).

MSCA Cancellation & Refund Policy

No penalty for cancellation 30 days prior to program date. After that date, reimbursement will be dependent on the filling of your vacancy.

Hotel Registration

Room Type	Room Rate	King Bed	2 Beds
Standard Single	\$159.00		

Arrival Date _____ Departure Date _____
 Total Number of People in Room _____ Sharing with _____

Do you have any special hotel requirements? _____

⚠ Please contact Sobeida Orantes, MSCA at 800-556-3653 if you require special accommodations to fully participate in this event.

Rooms at the Group Rate Are Subject to Availability

The hotel cut off date is April 23, 2010. After this date, rates and room types may change. A deposit equal to the room and tax charge for one night's stay will be necessary to confirm your reservation. Reservations cancelled within 72 hours of the day of arrival will result in forfeiture of deposit. All rates are subject to a 15.2% tax per room per night.

Check (payable to Philadelphia Marriott Downtown) AMEX MC VISA
 Account Number _____ Expiration _____
 Cardholder Name _____ Billing Zip Code _____

I authorize the following to be charged to the credit card provided: Room & Tax Incidentals All Charges

Signature _____

Registration Made Easy:

FAX your completed registration and hotel reservation forms to: (301)990-9690 OR
 Mail to MSCA, 1385 Piccard Drive, Rockville, MD 20850

Questions or changes?

Email Sobeida Orantes at saorantes@mcaa.org or call 800-556-3653

For Office Use

Payment: _____

Database: _____

Hotel: _____