

# Energy Efficiency & Sustainability

Understanding the Modern HVAC System

**PURDUE**  
UNIVERSITY

TECHNICAL ASSISTANCE  
PROGRAM

## Join us for Understanding the Modern HVAC System Workshop!

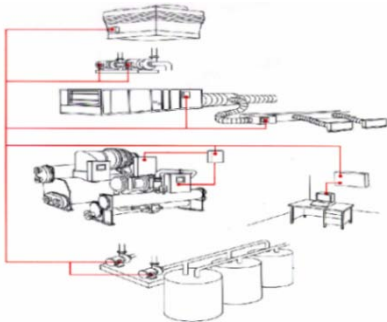
December 2, 2009 • Fort Wayne, IN

Learn the benefits of the modern HVAC system and applying ASHRAE 90.1 Energy Standard.

Trace the development of the modern HVAC system from heating only to VAV, chilled beam, UFAD and beyond. Learn how ASHRAE 90.1 Energy Standard can be applied to reduce cost and optimize operation of all of these types of HVAC systems.

### You will learn:

- How did we ever develop the complicated HVAC systems we use today? Where is the industry going? What can I do with what I've got?
- How to apply ASHRAE 90.1 to reduce energy consumption and improve system operation without compromising critical environments.
- The various types of heat exchangers and if any of them would make sense in a health care environment system.
- How temperature and humidity are used together for occupant comfort and to meet the special needs areas of your facility.
- About emerging systems including DOAS, chilled beam, UFAD and displacement ventilation. Do any of them make sense for your buildings?
- How your HVAC system can be used right or used wrong in your fight against mold and mildew.



### Workshop Details:

**Date:** December 2, 2009

**Time:** 8am – 4pm

**Cost:** \$125/ per person

**Audience:** Appropriate for the entire workforce.

### Location:

Northeast Indiana Innovation Center  
I&M Conference Room Emerging  
Growth Center  
3201 Stellhorn Road  
Fort Wayne, IN 46815

**To Register:** Visit

[www.mep.purdue.edu/events](http://www.mep.purdue.edu/events) under  
Energy Efficiency & Sustainability.

Register by November 25, 2009!

**How We Can Work With You:** In addition to HVAC System workshops, Purdue University's Technical Assistance program offers public workshops and provides on-site implementation and consulting services.

**For More Information on the OED and DOE,** please visit their websites at [www.state.in.us/energy](http://www.state.in.us/energy) and [www1.eere.energy.gov/industry/bestpractices/index.html](http://www1.eere.energy.gov/industry/bestpractices/index.html) respectively.

**\*Note:** If interested in Continuing Education Units (CEU), please email us at [MEPworkshops@purdue.edu](mailto:MEPworkshops@purdue.edu).



U.S. Department of Energy  
**Energy Efficiency and Renewable Energy**

Technical Assistance Program  
6640 Intech Blvd., Suite 120  
Indianapolis, IN 46278-2012  
(800) 877-5182 or (317) 275-6810  
Fax (317) 275-2375  
[www.tap.purdue.edu/energy](http://www.tap.purdue.edu/energy)

