

Building Analyst/Energy Auditor



HACC's Building Analyst course will teach you the basic principles of building science to assess energy efficiency in a home while also monitoring conditions that have a direct impact on human health and safety. This class emphasizes the "house-as-a-system" approach to inspecting a home by looking at all systems as interconnected, from the HVAC equipment, to the envelope, foundation, walls, roof, doors and windows. You'll learn how to use diagnostic equipment, such as the blower door and combustion analyzer to ensure systems are functioning together to correctly maximize home performance, comfort, energy efficiency, safety and durability.

You'll also be able to see typical energy-related building defects close up in a model home specifically designed for students in this course. You'll use energy audit tools and equipment in monitoring the energy efficiency of this model home, and will learn methods to correct the defects.

Topics to be covered include:

- Inspecting the site, building envelope and mechanical ventilation systems
- Measuring carbon dioxide, combustion efficiency, flue capacity, appliance venting and vent pressure
- Evaluating ductwork and airflow design, duct leakage, and air distribution system repair methods
- Blower door testing, duct testing, moisture detection
- Combustion appliance zones, thermal boundary analysis and indoor air quality (IAQ) analysis
- Proper insulation, window and lighting design and installation
- Air sealing of the building envelope and draft repair
- Conditioned and transition zone analysis
- Base building calculations and baseload appliance inspection
- Billing analysis and measures for improvement packages
- Creating reports, proposals, scope of work and cost estimates

The course costs \$1,300 and includes books, which are useful for future reference, and training materials. All inspection tools and equipment needed for the training will be made available for use by HACC. Testing for BPI auditor online and field exams is available for an additional fee.

*Classes meet at HACC's Midtown 2 site at 1500 N. Third St., Harrisburg
To register, call 717-780-2414 or 717-780-2616.*

For more information and questions about accommodations in the vicinity, contact Cheryl Deitz, coordinator, HACC Workforce and Economic Development Division, at 717-221-1338 or via e-mail at chdeitz@hacc.edu

www.hacc.edu

