

Ventilate Right & Make Airtight

(From the ABCs of Energy Efficiency)

OBBS Code Training Course Description: Course # BBS2007-260

Approved for BO, MPE, BI, MI, RBO, RPE, RBI - 2hrs



Introduction:

The ABCs series of workshops are developed as 2hr sessions but can be added or even combined as an 8hr session covering all aspects of Integrating Building Performance and Energy Codes.

The presentation approach incorporates actual buildings through photos and graphics to make the principles come alive for the participants and relate the subject to what they are seeing and experiencing every day. From our statewide audit efforts, I have a library of visuals and experiences assisting builders with unique locally based challenges. I have seen success and failure in the field and can share the lessons learned.

Materials will include session handouts and text materials developed during my training and technical assistance efforts with builders, code officials, and with home energy raters. In addition, I recommend a copy of the EEBA *Builder's Guide* and *Water Management Guide* be made available for each of the workshop attendees. Materials from these excellent resources are used during the course of the presentations. Content may be shifted slightly to highlight specific issues of importance to each group.

Agenda:

Introduction to the Course: (10 minutes)

The instructor will introduce himself and provide an overview of the course, text materials and housekeeping/logistical issues.

Ventilate Right & Make Airtight (110 minutes)

Ventilate Right

Surveys ventilation strategies and the cost of both random and added ventilation

Make Airtight

Examines building tightness limits and failures

Course Outline:

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| 1. | Ventilate Right | 2. | Make Airtight |
| 1.1 | ASHRAE 0.35 ACH meets the new 62.2 | 2.1 | Noise, dust, allergens, moisture, mold, and wasted energy ~ all from excess airflow |
| 1.2 | Combustion air requirements | 2.2 | \$ cost of excessive air flow |
| 1.3 | AirCyclers and return makeup air | 2.3 | BTL – the building tightness limit |
| 1.4 | Exhaust & Intake ventilators | 2.4 | Backdrafting dangers |
| 1.5 | Balanced – heat recovery ventilators | 2.5 | Whole house airflow dynamics |
| 1.6 | Audit averages of 1000 tested homes | 2.6 | Supply Combustion Air – an engineered solution |
| 1.7 | Houses are not too tight | 2.7 | Backdraft testing: the real issue, the real solution |