

**Manage Water**  
**Keep It Out & Let It Out**  
(From the ABCs of Energy Efficiency)



OBBS Code Training Course Description: Course # BBS2007-259  
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.

Manage Water – Keep It Out & Let It Out (110 minutes)

Bulk Water Management

Surveys drainage plane requirements, capillary breaks, and other strategies to keep bulk water out of building assemblies

Airflow & Vapor Retarder Systems

Examines the hidden means of moisture migration, how to prevent it and how to accommodate it - includes a review of the current move to eliminate vapor barriers in most of our residential construction

**Course Outline:**

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| 1.  | Bulk Water Management                          | 2.  | Airflow & Vapor Retarder Systems                             |
| 1.1 | Rainfall amount matters                        | 2.1 | Code required vapor barriers – Zone 5                        |
| 1.2 | Drainage planes – shingle down                 | 2.2 | Various vapor barrier materials                              |
| 1.3 | Roofs, valleys, overhangs and gutters          | 2.3 | Limitations of vapor barriers                                |
| 1.4 | House wraps, cladding, and downspouts          | 2.4 | Air barrier principles                                       |
| 1.5 | Foundation drainage and capillary protection   | 2.5 | Moisture migration by airflow v permeability                 |
| 1.6 | Slab capillary protection – the place for poly | 2.6 | Controlling moisture migration with airflow retarder systems |
|     |  | 2.7 | Constructing forgiving wall assemblies                       |