

## Siding & Window Replacement – Above-Grade Water Management

This workshop will teach participants essential information about Siding & Window Replacement as it applies to single family residences. Millions of American homes will be retrofitted in the coming years to improve their energy efficiency, make them more “green” or add features their owners want. Participants will learn the basics about above-grade water management as it applies to siding and window replacement and its impact on the building and occupants. They will gain practical strategies they can use to help their clients make better decisions. Participants will be equipped to avoid potential risks and identify new opportunities for marketing their services. The information presented in this session will build on the basics of building science covered in the popular EEBA full day Houses That Work session. Participants for this Siding & Window Replacement session are encouraged to attend a Houses That Work session before taking this workshop.

### Who Should Attend

The workshop is targeted to at least the following groups:

- General contractors who focus their business on the residential remodeling sector
- Specific trade contractors such as framer and window/siding contractors
- Building supply and manufacturers’ representatives
- Utility and housing program officials who promote weatherization programs
- Designers and architects
- Energy Raters

### Relevance to Attendees

- Identify how water management is related to building science and high performance homes
- Relate the potential impact on the building and the occupants
- Describe the essential strategies for effective siding & window replacement
- Demonstrate benefits to customers

### Note:

The workshop will in all cases be adapted to the climate zone and building practices of the local area where it is being presented to ensure it is relevant to participants.

## Agenda

Session Segment	Activity Plan	Timing
<b><u>Introduction to EEBA and Energy Star Program</u></b> <ul style="list-style-type: none"> <li>• The relationship between EEBA, DOE, ENERGY STAR, EPA</li> <li>• Relevance of the “Houses That Work” Program</li> <li>• EEBA publications and education</li> <li>• Introduction of speaker and sponsors</li> </ul>	Facilitator has sponsors and participants introduce themselves and asks participants what prompted their interest in today’s session.	10 minutes
<b><u>House as a System</u></b> <ul style="list-style-type: none"> <li>• Overview of current market opportunities</li> <li>• Changes – Materials, Equipment &amp; Techniques</li> <li>• Challenges</li> </ul>	<u>Short Lecture:</u> Facilitator reviews house systems and their interactions.	20 minutes
<b><u>Building Science</u></b> <ul style="list-style-type: none"> <li>• Moisture and air flow</li> <li>• Indoor air quality</li> <li>• Mechanical ventilation</li> </ul>	<u>Short Lecture:</u> Facilitator outlines building science fundamentals	25 minutes
<b><u>Water Management</u></b> <ul style="list-style-type: none"> <li>• Energy efficiency opportunities</li> <li>• Drainage principles</li> <li>• Flashing systems</li> </ul>	<u>Short Lecture:</u> Facilitator outlines principles of effective water management Strategies. Participants are asked for their feedback on their experience with these strategies	25 minutes
<b><u>Siding</u></b> <ul style="list-style-type: none"> <li>• Drainage strategies</li> <li>• Vented assemblies</li> <li>• Exterior insulation and air sealing opportunities</li> </ul>	<u>Short Lecture:</u> Facilitator reviews drainage strategies <u>Small Group Exercise:</u> Participants work together to develop strategies on the major risk factors	30 minutes
<b><u>Windows</u></b> <ul style="list-style-type: none"> <li>• Technology and Performance</li> <li>• Risk Factors</li> <li>• Flashing strategies</li> </ul>	<u>Short Lecture:</u> Facilitator reviews window systems and performance <u>Small Group Exercise:</u> Participants work together to develop action plans	30 minutes
<b><u>Remodeling Projects – Case Studies</u></b> <ul style="list-style-type: none"> <li>• Case studies</li> <li>• Water Management Strategies</li> <li>• Features, advantages and benefits of siding &amp; window replacement</li> </ul>	<u>Short Lecture:</u> Facilitator reviews case study scenarios. Participants are asked for their feedback on their experience with these strategies	30 minutes
	<u>Question and Answer:</u>	10 minutes

<b>Summary and End of Workshop</b>	Facilitator asks participants: - new things they have seen that will be easy to implement - things that will take more time to implement	
<b>End of Workshop</b>		

### Training Time and CEUs/Professional Development Credits

3.5 Hours of Educational and Training Time

This Seminar qualifies for CEUs/Professional Development Credits from the following accreditation organizations:



### Pricing

The hosting fee for this seminar is \$6500

The registration fee for this seminar is \$65 (online registration) or \$70 (on-site registration)\*

\* The registration fee includes lunch when two half-day sessions are combined for a full day.

## Reading Material and Online Resources

The reading material for the course consists of documents, publications and online resources relating to each educational and training seminar. You are welcome to order, view or print the resources if you choose. You can find them by following the links below to the EEBA, Department of Energy and EPA/IAQ websites.

### Link / Purchase / Download

#### Climate Specific Builders Guides

[Builder's Guide to Cold Climates](#)

[Builder's Guide to Hot-Dry / Mixed-Dry Climates](#)

[Builder's Guide to Hot-Humid Climates](#)

[Builder's Guide to Mixed-Humid Climates](#)

[Online bookstore with EEBA Publications, issue-specific guides, software and tools](#)

#### Software Resources

[Building Better Homes DVD](#)

#### Online Resources

[National Residential Efficiency Measures Database](#)

[DOE Building Technologies Program](#)

[Building Energy Optimization Software](#)

[EEBA National Education Partner Resources & Information](#)