

Course Syllabus:

<u>Course Title:</u>	Advanced Wind Mitigation Methodologies Part I- Internet Course for Florida Contractors-
<u>Number of Classroom Hours:</u>	1; 1 CEU
<u>Method of Presentation:</u>	Online Course
<u>Intended Target Group:</u>	Florida Certified & Registered Contractors

Provider Information:

Business Name: Infinity LC

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Course Description:

This course is designed to introduce Florida contractors to the Wind Mitigation Methodologies Retrofitting Techniques required by Florida Statute 553.844. By completing this course the Contractor will become familiar with the following improvements as outlined in the 2010 Florida Building Code- **Existing Building**, Chapters 6 & 16: prescriptive techniques for gable-end bracing, strengthening and fastening roof sheathing, and creating a secondary water barrier. In addition to the Retrofitting requirements for those improvements, the Contractor will be informed about the need for Wind Mitigation in Florida, as well as costs estimates associated with the aforementioned improvements, and will be given resources for locating additional information.

Course Prerequisites: There are no prerequisites for this course.

Course Learning Objectives:

1. To explain and describe the need for Florida contractors to be informed about Wind Mitigation.
2. To specify the requirements and techniques for installation of gable-end bracing.
3. To specify the requirements and techniques for strengthening and fastening roof sheathing and address cost approximations for this improvement.
4. To specify the requirements and techniques for creating a secondary water barrier and address cost approximations for this improvement.
5. Identify several important online resources for contractor's to access more information on wind mitigation in Florida.

Course Outline:

Section 1- Identifies the need for wind mitigation in Florida, discusses the environmental and legislative events that led to the development of these requirements, introduces the various groups impacted by windstorm loss mitigation, reviews the premium discounts available for wind mitigation safeguards, and reviews the uniform home grading scale used to rate residences for resistance to windstorm losses.

References: **F.S. 627.711-** Notice of premium discounts for hurricane loss mitigation; uniform mitigation verification inspection form.-; **Their house survived Ike, but it's the only one left-** <http://www.cnn.com/2008/US/09/18/ike.last.house.standing/index.html> ; **Ike obliterated most homes, but spared one on Church Street-** <http://www.chron.com/disp/story.mpl/hurricane/ike/6025525.html> ; **F.S.- 553.844-** Windstorm loss mitigation; requirements for roofs and opening protection; **F.S.- 627.0629-** Residential property insurance; rate filings-

Learning Exercise 1

Section 2- Gable-end Bracing- reviews the legislative requirement for implementing this improvement; reviews pertinent definitions and materials of construction (**short matching game**); pinpoints 4 key areas of weakness for this improvement including framing members, top and bottom of Gable-end Wall, and connection to the wall below; and outlines how to retrofit bracing techniques. **2010 Florida Building Code- Existing Chapter 16- Sections 1601, 1602, 1603 and 1604**

Learning Exercise 2

Section 3- Sheathing/Decking, Secondary Water Barriers- reviews the legislative requirement for implementing this improvement; outlines the mitigation techniques for strengthening roof sheathing/decking; outlines approved techniques for installing a secondary water barrier; identifies the estimated cost for implementing this improvement; identifies a wide variety of online resources for contractors to access more information on wind mitigation in Florida.

2010 Florida Building Code- Existing Chapter 6- Section 611.7

Additional references: Wind Insurance Calculator-<http://www.floridadisaster.org/mitdb/>;
Residential Construction Mitigation Program and various types of assistance-
<http://www.floridadisaster.org/Mitigation/rcmp/> ; Approved products for Secondary Water Barriers http://www.dca.state.fl.us/FBC/thecode/Secondary_water_barrier_revised.pdf;
Hurricane Mitigation Retrofit Q & A for Re-Roofing- <http://www.ci.boca-raton.fl.us/dev/pdf/BP/infolib/HurMitigRetrofitQ.pdf> ; Frequently Asked Questions Regarding Hurricane Mitigation Requirements of Florida Statute 553.844
<http://www.miamidade.gov/building/library/FaqHurricaneMitigation.pdf> ; Re-Roof Mitigation Guidelines Forum-<http://www.boaf.net/phpBB2/viewtopic.php?t=985&view=previous> ; Non-binding interpretations of the Florida Building Code- <http://www.boaf.net/ihelp.html>

Learning Exercise 3

Course Timeline:

This is a 50-minute course with the following approximate time line:

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|---|----------------------|
| • Section 1- Addressing the Need for Wind Mitigation | 6.5 Minutes |
| • Section 2- Gable-End Bracing
1601,1602,1603,1604 | 29.75 Minutes |
| • Section 3- Roof Sheathing & Secondary Water Barriers
611.7 | 11.5 Minutes |
| Total: | 47.75 Minutes |
| + Est. 3 Min. per Exercise: | 9 Minutes |
| + Est. 2 Min. for Matching Game: | 2 Minutes |

Total Est. Time:

58.75 Minutes

Method of Presentation: This is an online course, which uses narrated and animated PowerPoint Presentations that have been converted to Flash for web delivery.

Evaluation Method:

Licensees will be evaluated on their comprehension of the material covered by participating in three (3) short learning exercises and one (1) vocabulary matching game, interspersed throughout the course, upon which successful completion of each is required before advancement to the next segment is allowed and credit may be obtained for course completion.