

LESSON PLAN OUTLINE  
**UNDERSTANDING WOOD PESTS**  
“A Comprehensive Course for Real Estate Professionals”

Developed and Instructed by  
**Alan Feuer, ACE**  
**Staff Entomologist and Technical Director**

**CLASS DATES**  
Ongoing, To be Determined

**INSTRUCTION PERIOD**

4 Sections totaling 4 Hours

- |  |            |
|--|------------|
| 1. Introduction and Wood Pest Biology            | 90 Minutes |
| 2. Reporting Wood Pests                          | 60 Minutes |
| 3. Remediating Wood Pests                        | 60 Minutes |
| 4. Practical Use of Gained Knowledge and Wrap up | 30 Minutes |

**INSTRUCTION METHOD**

Demonstration/lecture with hands on class participation

**PROOF OF COMPETENCY OF ATTENDEES**

Brief tests to be given the end of each unit of study, which will be graded with feedback provided by the instructor via email.

**LEARNING OBJECTIVES**

At the completion of this period of instruction, attendees will be able to.

1. Define commonly used pest management terminology, acronyms etc.
  - o Learning level 1
2. List/name the main target pests/conditions of wood pest inspections
  - o Learning level 1
3. Intelligently review inspection reports and forms and identify actionable items on such reports.
  - o Learning level 2
4. Professionally interpret and use the information to provide sound counsel to their clients.
  - o Learning level 3
5. Analyze and deduce the appropriate next steps for communicating report findings and corrective measures.
  - o Learning level 4-6
6. Recognize the need to ask questions/seek counsel to fill in information gaps on poorly written or incomplete reports.
  - o Learning level 4-6
7. Discriminate between trustworthy information and bogus information.
  - o Learning level 4-6

## TRAINING AIDS

1. Power point presentation slide show.
  - a. Images of pests and structural conditions.
  - b. Images of documents.
  - c. Limited on scree text for important points or statements
2. Field samples of damaged wood and other structural components.
3. Viald or bagged samples of wood insects or their debris.
4. Live subterranean termites (if harvestable/in season)
5. Handouts
  - a. NPMA-33
  - b. Instructions for completing NPMA-33
  - c. Sample Graph and WDO Inspection forms
  - d. Unit tests

## COURSE OUTLINE

- |   |                  |
|---|------------------|
| 1. INTRODUCTION                                       | 5 Minutes        |
| 1.1. Instructor Intro                                 |                  |
| 1.2. Class Flow                                       |                  |
| 1.3. Important Points                                 |                  |
| 1.4. Industry interaction                             |                  |
| 1.5. Big Picture                                      |                  |
| 1.6. Learning Objectives                              |                  |
| 2. WOOD PEST BIOLOGY                                  |                  |
| 2.1. Wood Biology                                     | 5 Minutes        |
| 2.2. Fungi and Rot Biology                            | 20 Minutes       |
| 2.2.1.Types of Fungi and Rot                          |                  |
| 2.2.2.Identification of fungal presence               |                  |
| 2.2.3.Needs   |                  |
| 2.2.4.Construction conditions that lead to fungi      | BREAK 5 Minutes  |
| 2.3. SHOW AND TELL – HANDS ON REVIEW OF FIELD SAMPLES | 15 Minutes       |
| 2.4. Ant Biology                                      | 2 Minutes        |
| 2.4.1.Behaviors                                       |                  |
| 2.4.2.Indications of Infestations                     |                  |
| 2.4.3.Conditions                                      |                  |
| 2.5. Wood Beetle Biology                              | 10 Minutes       |
| 2.5.1.Types of Beetles                                |                  |
| 2.5.2.Terminology                                     |                  |
| 2.5.3.Survival Requirements                           |                  |
| 2.5.4.Construction conditions that lead to beetles    |                  |
| 2.6. Termite Biology                                  |                  |
| 2.6.1.Drywood Termites                                | 10 Minutes       |
| 2.6.1.1. Range of activity                            |                  |
| 2.6.1.2. Recognizing Indications of Infestations      |                  |
| 2.6.1.3. Biology and needs                            |                  |
| 2.6.2.Subterranean Termites                           | 20 Minutes       |
| 2.6.2.1. Local Facts and activity                     |                  |
| 2.6.2.2. Recognizing Indications of Infestations      |                  |
| 2.6.2.3. How do they get into structures?             |                  |
| 3. INSPECTING AND REPORTING WOOD PESTS                | BREAK 10 Minutes |
| 3.1. Laws and Regulations                             | 3 Minutes        |
| 3.1.1.Licensing and Insurance                         |                  |
| 3.2. Minimum Standards and Industry Guidelines        | 2 Minutes        |
| 3.3. Preparing for an inspection                      | 2 minutes        |
| 3.4. Inspection Process                               | 5 Minutes        |
| 3.4.1.Visual and Manual Inspection processes          |                  |
| 3.4.2.Data capture processes                          |                  |
| 3.4.3.Limitations of inspections                      |                  |

3.4.4. Verbal comments compared to written reports	
3.4.5. Completion and transmission of written reports	
3.5. Reporting Forms and Processes	35 Minutes
3.5.1. NPMA-33	
3.5.1.1. Form overview, instructions	
3.5.1.2. About each section	
3.5.1.3. Understanding next steps – recommendations	
3.5.1.4. Examples of completion	
3.5.2. Attachments	
3.5.2.1. Graphs	
3.5.2.1.1. Codes and abbreviations	
3.5.2.1.2. Infestations sites	
3.5.2.1.3. Conducive conditions	
3.5.2.1.4. Blocked or inaccessible areas	
3.5.2.1.5. Treatment plans	
3.5.2.2. Wood Destroying Organism Reports	
3.5.2.3. Other Addendum	
3.5.3. Putting it all together	
3.5.3.1. Taking the next steps	
3.5.3.2. The importance of clean documentation	
4. REMEDIATING WOOD PESTS – TREATMENT OPTIONS	BREAK 10 Minutes
4.1. Using borate based products	8 minutes
4.1.1. Pests controlled	
4.1.2. Limitations and expectations	
4.1.3. Methods	
4.2. Structural Fumigation	3 Minutes
4.2.1. Pests controlled	
4.2.2. Limitations and expectations	
4.2.3. Methods	
4.3. Managing Rot and Fungi	3 Minutes
4.3.1. Moisture Management	
4.3.2. Replacement of damaged materials	
4.4. Managing Structure Damaging Ants	2 Minutes
4.5. Managing Wood Destroying Beetles	
4.6. Managing Drywood termites	3 Minutes
4.6.1. Spot Treatments	
4.6.2. Fumigation	
4.7. Soil Treatments for Sub-termites	15 Minutes
4.7.1. Using a diagram/graph	
4.7.2. Treatment components	
4.7.3. Treatment challenges	
5. PRACTICAL USE OF TODAY'S INFORMATION – CONCLUSION	Break 5 Minutes
5.1. Class Feedback	15 Minutes
5.1.1. What did you learn today?	
5.1.2. How will you use this information?	
5.2. Final Emphasis	5 Minutes
5.2.1. Use due diligence in selecting a contractor for your pest needs	
5.2.2. Check licensing and insurance	
5.2.3. Read reports carefully and all attachments	
5.2.4. Avoid using absolutes when discussing wood inspection/treatments	
5.2.5. Keep asking questions	
5.2.6. Do everything in writing	
5.2.7. Do not base decisions on price	
5.3. Closing Questions, Comments and test catch up.	10 Minutes
	<b>TOTAL 3 hours 48 minutes</b>