# ACE-International Pesticide Safety Content Outline

## Domain #1 Understanding pesticides and control methods (20% of the exam)

### Skill #1 Understand differences between pesticides
- Types of pesticides
- Methods of identifying pesticides (e.g., common name, chemical name, etc)
- Understand modes of action (MOA)
- Define and classify pesticides
- LD50, LT50, and LC50 concepts

### Skill #2 Understand insecticide formulations
- Terms used in formulation
- Choosing the proper formulation
- Strengths and limitations of various formulations

### Skill #3 Follow best practices for pesticide use
- Know when pesticide use is appropriate based on other aspects of your IPM program
- Explain IPM to customers and others
- Appropriate record keeping
- Understand Insecticide resistance

## Domain #2 Using pesticides and other control methods (40% of the exam)

### Skill #1 Use the proper equipment
- Application equipment
- Inspection and monitoring equipment
- Personal protection equipment (PPE)
- Pest-proofing equipment

### Skill #2 Read and understand the label
- Find information on a label
- Signal words
- Parts of the label
- Hazard communication (e.g., SDS)

### Skill #3 Apply pesticides
- Selecting pesticides
- Filling and mixing pesticides
- Equipment calibration
- Calculate coverage area needs
- Environmental considerations

### Skill #4 Communicate with the customer
- Dangers of pesticides
- Pest tolerance

## Domain #3 Pesticide Safety and Exposure (40% of the exam)

### Skill #1 Understand pesticide exposure risks
- Risks to the applicator and others
- Risks to nontarget animals and the environment
- Acute and chronic toxicity
- Recognize symptoms of pesticide exposure and poisoning
- Routes of entry
- Appropriate response to exposure

### Skill #2 Handle pesticides appropriately
- Use pesticides safely
- Store pesticides safely
- Transport pesticides safely
- Proper disposal of pesticides and containers

### Skill #3 Manage spills
- Proper responses to a spill
- Safety precautions related to spills
- Minimizing and avoiding spills
- Notification protocol for spills