

ACE-International Exam Content Outline

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INSPECTION AND IDENTIFICATION

Topic Knowledge needed to accomplish the skill:

(45% of exam)

Inspe	ct for evidence of pests
	Tools available for inspection and appropriate uses (e.g., flashlight, moisture meter, flushing agents)
	Probable locations of pests
	Types of evidence of pest presence (e.g., damage caused, egg types, frass)
	Safety precautions (e.g., equipment, personnel)
Inspe	ct for conditions conducive to pests
	Tools available for inspection and appropriate uses (e.g., flashlight, moisture meter, flushing agents)
	Conditions conducive to pests (e.g., site, weather, ambient conditions)
	Safety precautions (e.g., equipment, personnel)
Identi	fy pests
	Taxonomy and classificaon
	Morphology
	Biology (basic physiology, behavior, habitat, lifecycle, reproduction potential)
	Damage caused
Docui	ment and communicate findings of pest inspection and identification
	How to explain pest thresholds and respond to customer expectations
	Use, limitations and types of pest thresholds
	What to document
	How to document
	Where to document
	To whom to communicate findings
 I	Adherence to ACE Code of Ethics

Mon	Monitoring (12% of	
Topic	Knowledge needed to accomplish the skill:	exam)
Identify	and select appropriate monitoring tools	
	Monitoring tools available and their uses/limitations and related safety precautions (e.g., flashlight, light traps, pheromone traps)	
Pests that are most commonly monitored (cockroaches, flies, stored product pests, termites, bed bugs)		s, bed bugs)
Place m	Proper use and placement of tools	
	Appropriate combined use of tools	
Docume	ent and communicate findings of monitoring and recommendations	
	What to document	
	How to document	
	Where to document	

To whom to communicate findings and recommendations
Application of the ACE Code of Ethics

SELECTION/IMPLEMENTATION OF CONTROL METHODS

(28% of exam)

Topic Knowledge needed to accomplish the skill:

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Choose the appropriate control method(s) for pest management	
Cultural control options available, appropriateness of each, and advantages/limitations of	each (e.g.,
sanitation, temperature, special lighting, habitat modification)	
Biological control options available, appropriateness of each, and advantages/limitations	of each (e.g.,
predators, parasites, pathogens)	
Mechanical control options available, appropriateness of each, and advantages/limitation	s of each (e.g.,
traps/glueboards, pest proof design, removal, air curtains, lights)	
Chemical control options available, appropriateness of each, and advantages/limitations of	of each (e.g., IGRs,
Pheromones/Attractants, Pesticides)	
Simple modes of action of commonly used pesticides	
Classifications of commonly used pesticides	
Pesticide resistance	
Pesticide formulations	
Pesticide application techniques	
Appropriateness (or not) of combinations of products	
Following label instructions, including disposal	
Relative effectiveness/efficacy versus risk of various control methods and options within e	each method
Importance of selecting least hazardous effective method(s)/option(s)	

Select the appropriate tool(s) for use with the pest management method(s) for pest scenarios

Tools available, appropriateness of each, and advantages/limitations of each and related safety precautions (e.g., compressed air sprayer, infrared camera, gas detector, duster)

Communicate which pesticides are or are not currently allowed for use by the EPA

In which cases certain products are used or not (cyclodiences, Chlorinated hydrocarbons (e.g., DDT, Chlordane, Lindane), Carbamates (e.g. aldicarb, carbofuran, propoxur), Organophosphates (e.g. malathion, chorpyrifos, diazinon, mlathion)

The reasons why (in general) pesticides are no longer used

Follow the label instructions and precautions

Common precautions
Active ingredients
Types of formulations
Proper storage and disposal
Concentration and mixing procedures
Restricted use pesticides
Trade names, common names and chemical names
Toxic dosages

Educate the customer on their role in pest management

	Critical messages to convey
	Appropriate methods for message conveyance
	Behavioral customer modifications

	Appropriate application techniques for each of the pest control methods		
	Application of the ACE Code of Ethics		
Docume	ent and communicate the pest control method(s) applied and tool(s) used for application		
	What to document		
	How to document		
	Where to document		
	Application of the ACE Code of Ethics		
EVAI	UATION	(15% of	
Topic	Knowledge needed to accomplish the skill:	exam)	
•	reduction in pests	Схапп	
	Monitoring		
	Identification		
	Communication with customer		
Analyze	pre- and post-treatment effects		
-	Acceptable thresholds		
	Pest resistance		
	How to analyze the presence of pests over space and time		
	Managing customer expectations		
	Interpreting results		
Determ	ine next steps		
	IPM process		
	Methods/options available		
	Use of results to affirm/modify pest management methods/options		
Docum	ent and communicate evaluation findings		
	What to document		
	Third party audits		
	Application of the ACE Code of Ethics		