

## IPM CURRICULUM FOR PLUMBERS

### LOW-RISK INTEGRATED PEST MANAGEMENT TRAINING

William and Jean Currie, International IPM Institute

#### INSTRUCTION UNITS IN THIS LESSON PLAN:

1. The IPM policy, what it does, what not to do, your role in policy implementation, how to activate pest management help, expectations from Pest Management Technicians.
2. Plumbing skills – prevention of access to moisture by pests, prevention of access by pests through drains, pipe races or other plumbing sources (irrigation).
3. Observation and reporting.

#### PERFORMANCE OBJECTIVES:

Unit #	Objective of Performance	Importance	Learning Difficulty
1	Know the IPM policy, understand your role in policy implementation and know how to get low-risk pest management help.	Very Important	Moderate
2	Plumbing skills – know that leaks, condensation and other moisture and nutrient sources support vertebrate, insect and fungal pests.	Very Important	Easy
3	Observation and reporting – be able to recognize and report evidence of pest activity on sites.	Important	Easy

KEY:

IMPORTANCE: Very important, important, not too important

OBJECTIVE OF PERFORMANCE: Must know, be familiar, have knowledge, understand, perform, demonstrate, etc.

LEARNING DIFFICULTY: Difficult, Moderate, Easy, Moderate to Very Difficult

## PLUMBER LESSON PLAN

PREPARATION DATE: May 9, 2008

PREPARED BY: William E. Currie

UNIT OF INSTRUCTION: Low-risk IPM Policy Implementation

TITLE OF LESSON: Policy, roles and pest management help, plumbing skills; observation and reporting.

INSTRUCTIONAL OBJECTIVE: Plumbers will know the low-risk IPM policy, their role in implementation, and how to get pest management help. Understand importance of plumbing skills in moisture management and eliminating pest access. Be able to observe (recognize) and report evidence of pests.

TIME ALLOTTED FOR LESSON: 3 hours  
METHOD OF INSTRUCTION: Lecture, guided discussion, demonstration, hands-on  
INSTRUCTIONAL RESOURCES: Manual, slides, pest mounts  
A/V EQUIPMENT: Flip chart, PPT, slide projector, overhead projector, screen

GENERAL PLAN OF PRESENTATION: Introductions – why are we here? Attendees will understand the IPM policy and their roles in implementation, how to get pest management help, plumbing skills, moisture management, prevention of pest access, observation and reporting of pest activity.

INTRODUCTION: Names and roles of instructors, student introductions. Why are we here? Reasons for the low-risk pest management policy. What does it do? IPM definition, prevention philosophy, etc.

EXPLANATION/APPLICATION/PRESENTATION:

1. Plumbing skills prevent and repair sources of moisture and nutrients that support vertebrate, insect and fungal pests.
2. Pest prevention is a key strategy in the implementation of the low-risk pest management policy.
3. Design and maintenance of plumbing fixtures, pipelines and pipe races can also prevent access to structures by pests.
4. Observation and reporting of evidence of pest presence in various environments is also important to pest management.
5. Plumbers work in sites and environments on the site that are seldom seen by most other personnel.
6. Being able to recognize and report evidence of vertebrate, insect and fungal presence or activity is critical so that the Pest Management Technicians can take management action.

CONCLUSIONS/SUMMARY: Low-risk pest management requires dedication and may be tedious and time-consuming when performed correctly. A thorough understanding of why such procedures are so important frequently imparts a degree of significance to even the most mundane task. The work and observations made by plumbers are very important contributions to the success of the pest management policy implementation.

PLUMBER LESSON PLAN UNIT ONE

COURSE DESCRIPTION: Low-Risk Integrated Pest Management Implementation  
 SUBJECT MATTER: Policy, Roles, How to Activate Pest Management Help  
 UNIT OF INSTRUCTION: Unit 1: Lecture, PPT or Overhead Transparencies, 30 minutes

INSTRUCTIONAL PROCEDURE:

No.	Instructional Sequence (Tasks)	Instruction Method (Performance)	Learning Difficulty
1	Policy, history, implementation	Lecture, PPT, overheads	Easy
2	What's different, IPM definition, do's, precautionary principle, approved product list, notification, posting, emergency approval, training	Lecture, PPT, overheads	Easy
3	Don'ts, only licensed Pest Management Technicians apply pesticides, remove harborage (clutter), no BAN, phase out pesticides over time	Lecture, PPT, overheads	Moderate
4	Roles, sanitation, no food, pest-proof food storage, eliminate clutter, observation and reporting, teach others	Lecture, PPT, overheads	Moderate
5	Reportable conditions, pest sighting, pest evidence, droppings, gnawings, webbing, fecal focal points, scattered trash, etc.	Lecture, PPT, slides, display	Difficult
6	Facilities Manager, point of contact, may examine situation, call to report, information directed to appropriate office	Lecture, PPT, overheads	Easy
7	Expectations, Pest Management Technicians respond, emergencies that day, thorough inspection and monitoring	Lecture, PPT, overheads	Easy
8	Low-risk pesticide application, follow-up, repair structural defects, prevent pest access	Lecture	Easy
9	Basics of IPM: exclusion, sanitation, habitat modification, inspection, monitoring, low-risk pesticides, records	Lecture	Moderate

INSTRUCTIONAL SEQUENCE: What comes first, chronological order  
 METHOD OF INSTRUCTION: Lecture, demonstration, performance, discussion

**PLUMBER LESSON PLAN UNIT TWO**

**COURSE DESCRIPTION:** Low-risk Integrated Pest Management Implementation  
**SUBJECT MATTER:** Plumbing Skills – Moisture Management – Pest Access  
**UNIT OF INSTRUCTION:** Unit 2: Guided Discussion – 45 minutes

**INSTRUCTIONAL PROCEDURE:**

No.	Instructional Sequence (Tasks)	Instruction Method (Performance)	Learning Difficulty
1	Management and repair of leaks and condensation to eliminate water sources for pests.	Lecture, guided discussion, demonstration	Moderate
2	Proper design and maintenance of plumbing reduces access by vertebrate and insect pests.	Lecture, guided discussion, demonstration	Moderate

**PLUMBER LESSON PLAN UNIT THREE**

**COURSE DESCRIPTION:** Low-Risk Integrated Pest Management Implementation  
**SUBJECT MATTER:** Observation and Reporting  
**UNIT OF INSTRUCTION:** Unit 3: PPT, Slides, Lecture, Demonstration – 1 hour 15 minutes

**INSTRUCTIONAL PROCEDURE:**

No.	Instructional Sequence (Tasks)	Instruction Method (Performance)	Learning Difficulty
1	Recognize situations that provide pest access.	Lecture, slides, demonstration	Moderate
2	Recognize evidence of vertebrate, insect and fungal activity.	Lecture, slides, demonstration	Easy

**INSTRUCTIONAL SEQUENCE:** What comes first, chronological order  
**METHOD OF INSTRUCTION:** Lecture, demonstration, performance, discussion