

# FOOD SCIENCE & HYGIENE

## Chapter 8....

## Pest Management!



# Pest management

- Pest such as insects & rodents can pose serious problems:
  - They are unsightly to customers
  - They damage food & supplies
  - They can damage facilities
  - They can spread diseases
- Once they have infested a facility, it can be very difficult to eliminate them!



# Integrated Pest Management program

- Three basic rules of an IPM program:
  - Deny pests access to the facility
  - Deny pests food, water, & a hiding or nesting place
  - Work with a licensed pest control operator to eliminate pests that do enter



# Deny pests Access

- Pests can enter a facility in one of the following ways:
  - They brought inside with deliveries
  - They enter through openings in the building



# Deny access through Deliveries

- Use reputable suppliers
- Check deliveries before enter your facility
- Refuse shipment with signs of pest infestation:
  - Possible pest holes
  - Pest egg cases
  - Pest body parts (legs, wings, etc.)

# Deny access through doors, windows, & vents

- Install screens in all windows & vents



- Install self closing devices on all doors



- Install door sweeps on all doors



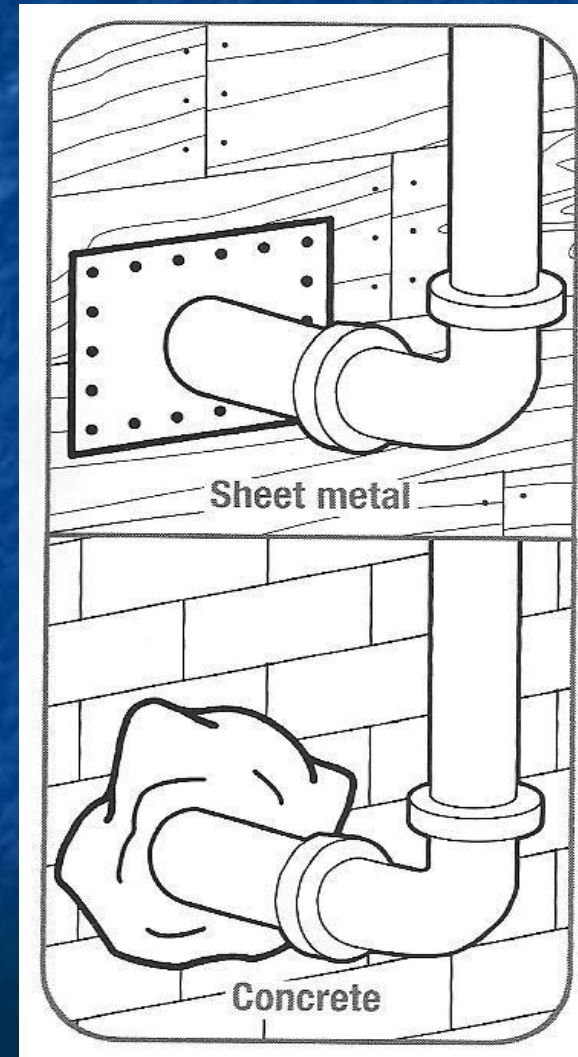
- Install air curtains



- Keep all exterior openings closed tightly!

# Deny access through pipes

- Use concrete or sheet metal around pipes
- Install screens over ventilation pipes on roof



# Deny access through floors & walls

- Seal all cracks in floors & walls
- Seal spaces or cracks where fixed equipment is fitted to the floor
- Store supplies away from walls (15cm)
  - Paint a white stripe around the edge of the storeroom
- Cover floor drains with hinged grades





# Deny food & shelter

- Pests are usually attracted to damp, dark, & dirty places, so....
  - Dispose garbage quickly & correctly
  - Keep garbage containers clean, in good condition & tightly covered
  - Clean up spills around containers immediately
  - Store all food & supplies as quickly as possible
  - Clean & sanitize the facility thoroughly

# Identifying pests

## ■ Cockroaches

- You have roach infestation problem when...

- You see them in daylight
- There is a strong oily odor
- You discover droppings (like grains of black pepper)
- You find egg cases that are capsule shaped (brown, dark red or black)



# Identifying pests

## ■ Rodents

- You have mice or rat infestation problem when...

- You find droppings
- You find sign of gnawing
- You find tracks on dusty surfaces
- You find nesting material (scraps of paper, cloth, hair, etc.)
- You find holes (in dirt, rock piles, foundation etc.)



# Control measures

- Repellents
- Sprays
- Baits
- Glue boards
- Traps

