

STUDY GUIDELINES FOR LICENSE AND PERMIT EXAM FUM (FUMIGATION PEST CONTROL)

CATEGORY FUM: FUMIGATION PEST CONTROL

SOME INFORMATION YOU SHOULD HAVE KNOWLEDGE OF BEFORE TAKING LICENSE AND/OR PERMIT EXAMINATION FOR FUMIGATION PEST CONTROL

This outline may be used as a study guide for the license and permit (Category FUM) Fumigation Pest Control. The Mississippi Bureau of Plant Industry is providing a list of suggested references and this outline as aids in studying for the License and/or Permit examinations. Mallis's Handbook of Pest Control, MSU Extension Commercial Certification Category VII (B) manual and specific fumigant labels are excellent references. Other entomological references, specifically dealing with the pest control industry, may also prove helpful. The use of the World Wide Web can provide a wealth of information and may be helpful in increasing your knowledge of the listed topics. Web sites from universities, extension, pest management societies and sites devoted to specific insects and pests may provide detailed information. A copy of the Regulations Governing Commercial Insect, Rodent, Plant Disease and Weed Control Work can be found at The Mississippi Department of Agriculture and Commerce, Bureau of Plant Industry website, <http://www.mdac.ms.gov/wp-content/uploads/11-Regulation-of-Professional-Services.pdf>. **Please note that you should be familiar with the topics in this outline, but there is no guarantee that all of the topics listed, or only the topics listed will be included on any Licensing and/or Permit examinations.**

1. You should be thoroughly familiar with Bureau of Plant Industry Regulations Governing Commercial Insect, Rodent, Plant Disease and Weed Control Work. Topics include, but are not limited to:
 - Licensing/Permit requirements
 - Licensing/Permit renewal requirements
 - Registered technician standards
 - Violations
 - Record keeping requirements
 - Bond and insurance requirements
 - Contracts and inspections
 - Wood destroying beetles (Subsections 119.01 through 119.03); Requirements

2. Insects. Structure, function and development
 - External morphology. head, thorax and abdomen.
 - Internal morphology including respiratory, circulatory, nervous, excretory, digestive, muscular and reproductive systems
 - Metamorphosis (Without; Gradual; Incomplete; Complete)
 - Be familiar with how a fumigant affects an insect. Be familiar with the life stages and how each one is affected by fumigants.
3. Be familiar with fumigants and their respective labels.
4. Fumigants
 - Product information
 - Safety information
 - Handling and storage
 - Preparing a site
 - Calculations using the Fumiguide
 - Use and release of a warning agent
 - Introduction of fumigant
 - Monitoring of fumigant
 - Aerating and Clearance testing
 - Other site specific considerations
5. Be familiar with the following fumigants based on above information for each:
 - Methyl bromide
 - Sulfuryl fluoride
 - Aluminum phosphide
 - Chloropicrin
 - Hydrogen phosphide
 - Carbon disulfide
 - Naphthalene
6. Be familiar with warning agents and which one(s) are commonly used with each fumigant.
7. Be able to calculate cubic feet in structures and cylinders. Be able to determine # of pounds of fumigant to be released at a rate of "X" pounds per 1000 cubic feet.