



Certification Knowledge Requirements

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Background:

To apply Restricted Use Pesticides (RUP) or apply pesticides commercially (meaning you charge to apply pesticides on other peoples property) you have to be certified and licensed. Certification includes a training component (in Wisconsin getting the training materials, attending a live training, or doing the online course) then an evaluation, the test.

Applicators are expected to have a minimum amount of knowledge regarding pesticide use. This requirement is spelled out in the State of Wisconsin's code and is based on Federal regulations. Training and training materials are based on these requirements or standards.

Below are the actual standards taken from ATPC 29, Wisconsin's code that provides the requirements to use RUPs or apply pesticides commercially.

(1) Pesticide Labels:

- Knowledge related to the general format and terminology used on pesticide labels.
- Ability to understand instructions, warning, terms, symbols, and other information commonly appearing on pesticide labels.
- Knowledge of pesticide use classifications.
- Knowledge that pesticide use inconsistent with labeling is prohibited.



(2) Pesticide Hazards; General:

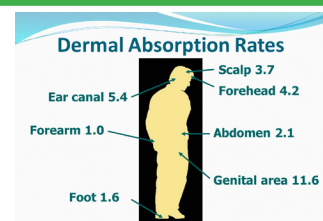
- Pesticide toxicity.
- Common hazards to persons, property, and the environment.

Product Information

LD50 Oral	153 mg/kg (rat)
LD50 Dermal	> 2,000 5,000 mg/kg (rabbit)
LC50 Inhalation	> 7.25 mg/L 4 hr

(3) Human Health Hazards and Responses:

- Pesticide exposure and health risks related to different types of pesticide and pesticide applications.
- Common exposure routes by which pesticide may reach or enter an organism.
- Common types and causes of pesticide accidents.
- Safety measures to prevent or minimize human exposure.
- Worker Protection, including the use of protective equipment (PPE).
- Symptoms of pesticide poisoning.
- First aid and other procedures to be followed in case of pesticide exposure.

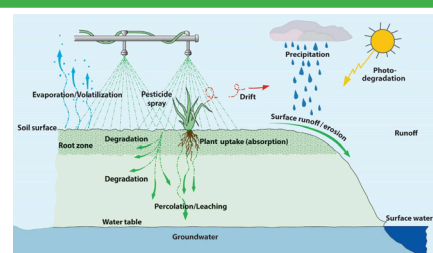


Routs of Exposure

Skin **Mouth**
Eyes **Lungs**

(4) Environment:

- Potential environmental hazards related to pesticide use or misuse, including hazards to surface water, groundwater, nontarget organisms, and endangered species.
- How environmental hazards may be affected by factors such as weather, terrain, drainage patterns, soil types, hydrogeologic conditions, and the nature of surrounding biological communities.



(5) Pests:

- (a) Identification of relevant pests.
- (b) Common features of pest organisms.
- (c) Characteristic damage caused by pest organisms.
- (d) Pest development and biology as it may be relevant to problem identification and control.
- (e) Factors affecting the need for, and appropriate use of, pesticide to control pests.

Bed Bug,
Allen Szalanski,
Bugwood.org



(6) Pesticides:

- (a) Pesticide types and formulations.
- (b) The compatibility, synergism, persistence, and toxicity of different pesticide formulations.
- (c) Potential hazards associated with the use of different pesticides.
- (d) Factors influencing pesticide effectiveness and pest resistance to pesticides.
- (e) The mixing and dilution of pesticides.



(7) Equipment:

- (a) Practical knowledge and competency related to the types of equipment used to apply pesticides, including the advantages and limitations of each type of equipment, the use and maintenance of equipment, and the calibration of equipment.



(8) Pesticide Mixing and Loading:

- (a) Mixing and loading instructions.
- (b) Proper mixing and loading procedures.
- (c) Mixing and loading equipment and facilities
- (d) Spill prevention and spill response procedures.
- (e) Worker safety, including use of protective safety equipment.



(9) Pesticide Application:

- (a) The methods or procedures used to apply different pesticides and pesticide formulations.
- (b) Factors affecting the choice of application method or application rate.
- (c) The relationship between pesticide discharge, pesticide placement, and proper use of pesticides.
- (d) Unnecessary use and misuse of pesticides.
- (e) Prevention of overspray and drift.

David J. Moorhead, University of Georgia,
Bugwood.org



(10) Pesticide Handling, Storage, Transportation and Disposal:

- (a) Proper equipment, facilities and procedures for handling, storing, transporting and disposing of pesticides.
- (b) Proper procedures for rinsing and disposing of pesticide containers.
- (c) Proper spill prevention and spill response procedures.
- (d) Safeguards to prevent or minimize hazards to persons, property and the environment.
- (e) Worker protection, including use of protective equipment.



(11) Pesticide Regulations

- (a) The Federal act (FIFRA)
- (b) Sections 94.67 and 94.71
- (c) The State of Wisconsin's rules (ATCP 29, 30, 33, and NR 80)



The above are the general requirements to get certified. Keep in mind that each category will have specific requirements that are specific to those categories. For example category 1.1 (Field & Vegetable) will require you to know something about the Worker Protection Standard.