



Procedure

Date of Issue: 15.1.27

Background

Pesticides application and pest control activities are regulated in BC by the [Integrated Pest Management Act](#) and [Regulations](#).

The primary goals of the IPM Act and Regulation are to:

- Establish regulatory requirements based on degree of risk to human health and the environment;
- Promote environmental stewardship and integrated pest management; and
- Set clear and enforceable standards for the protection of human health and the environment.

IPM is an approach that uses a combination of pest management techniques in an organized program to suppress pest populations in effective, economical and environmentally sound ways.

The regulations cover the sale, use and handling of pesticides in the province. Pesticides are categorized into 3 groups - permit restricted pesticides, excluded pesticides, and non-excluded pesticides. All non-excluded pesticides applications require a license and a certificate. The regulations also prescribe specific record keeping and reporting requirements, as well as public notification of pesticides application, labeling, transportation, storage, disposal practices, and application precautionary measures.

Purpose

The purpose of this procedure is to prevent and minimize the potential health, safety and environmental risk, from using pesticides. Following this procedure will also facilitate compliance with the BC Integrated Pest Management Act and Regulations.

Scope and Applicability

Units in UBC where non-excluded pesticides may be used are affected by and need to comply with the above Act and regulations, and with this procedure.

- The Botanical Garden
- The Nitobe Memorial Garden
- The Botanical Garden Nursery
- The Faculty of Land and Food Systems:
 - Totem Field
 - Green house
- The Department of Botany- Greenhouse
- The Department of Forest Sciences – if pesticides are used for purpose other than research on pesticides
- The Centre for Sustainable Food Systems at UBC Farm



Procedure

Date of Issue: 15.1.27

- Building Operations:
 - Municipal Services- landscaping group
 - Custodial Services- pest control activities
 - Building Operations nursery
- Student Housing and Hospitality Services - pest control activities

Responsibilities & Procedural Steps

1. All users in UBC of permit restricted and non-excluded pesticides, must obtain a license¹ for the use of these pesticides. (Note that license is not required if only excluded pesticides are being used).

The license must endorse one or more of the following specific categories, as requested in the application.

- Management of forest pests on up to 20 ha/year of public land used for forestry;
- Management of noxious weeds or invasive plants on up to 50 ha/year of public land;
- Management of structural pests and pests of gardens and landscaping on public land; and
- Management of forest pests on private land used for forestry

2. Licence is not required when:

- a) Pesticides are used for academic research purposes in a manner that complies with the intended use (per pesticide label) and the research is performed in a laboratory (indoors).²
- b) Pesticides are used in agricultural production on public land (UBC Farm), except if planning to offer the service of pesticide application.

Contact Environmental Services at 604-822-9280 for details.

3. Any time permit restricted, restricted or commercial pesticides are used in a location, the pesticide application must be conducted by a certified applicator. Excluded pesticides may require applicator certification if pesticides are moderately to very toxic: Oral LD₅₀ < 500 mg/kg or Dermal LD₅₀ < 1000 mg/kg (per WCB section "[6.77 Qualifications](#)" pesticide requirements).

¹ Note that if the total area of land managed exceeds the maximum area allowed under a license, a Pest Management Plan (PMP) must be developed and a pesticide use notice (PUN) confirmation must be obtained from the Ministry of Environment, before user can proceed with the specified pesticide uses; that apply mainly to large scale industrial pest management operations. The holder of the PUN must annually inform the ministry of the sites where pesticides will be used that year. When pesticides are used, the standards for use of IPM and protection of human health and the environment must be used

² Pesticides used in research may require a federal [Pest Management Regulatory Agency](#) (PMRA) permit if they are used in a different way than the intended use (per pesticide label) or if a pesticide is not registered (no PCP #).



Procedure

Date of Issue: 15.1.27

4. To be eligible for certification (valid for a maximum 5 year term), a user must be at least 16 years of age and have successfully passed the appropriate examination. For re-certification, a user can write the exam or can enroll in an approved continuing education program.
5. Pesticide certification for applicators must be in the appropriate category. There is a separate study kit and exam for each category. Use this link to [Find your Pesticide Applicator Certification Category](#)
6. Not certified applicators can use pesticides as long as:
 - a) They are supervised by a certified applicator
 - b) There are not more than 4 people per certified applicator; and
 - c) The certified applicator is within 500 m of the uncertified staff in continual visual or auditory contact
7. Units where pesticides are used must retain the following records:
 - Name and address of the manager of the treatment location
 - Name and certificate number of the certified applicator who used or supervised the use
 - If pesticides application provided as a service, the license, and permit number of company and applicator
 - Date and time of pesticide use
 - Name of pest targeted by the use, or the purpose of the use
 - Trade name and registration number of each pesticide used
 - Method, rate of application and total quantity used – for each pesticide used
 - If use outdoors, the prevailing weather conditions (temperature, precipitation, wind)
 - Pest monitoring methods and injury thresholds used to fulfill IPM requirements
 - Fumigant gas monitoring results (when fumigants are used)
 - Advice given to owner/manager (e.g., safe re-entry time, crop harvest safety precautions)
 - Complete the following [Pesticide Use Record \(Pesticide Use Record Explanatory Information\)](#), provided by the Ministry of Environment to fulfil these requirements.
8. An appropriate spill kit and material must be readily available on sites where pesticides are used or stored.
9. A licensee must provide the appropriate public notification when such notification is required.
10. A Public Notification posted treatment notice must contain the following information:
 - Description of the treatment area
 - Name of the targeted pest
 - The pesticide registration number and active ingredient
 - Proposed date and start time of the pesticide use
 - Name and license number of the licensee, contact name and phone number
 - Precautions that should be taken to minimize exposure to a pesticide or its residues



Procedure

Date of Issue: 15.1.27

- Safe re-entry time, days before food can be harvested safely
11. The notice must be legible to an approaching person adhering to the following requirements:
 - Size of posting: indoor at least 200 cm², outdoor at least 550 cm²
 - Made of water resistant material if the notice may be exposed to water
 - Contain clear cautionary symbol (stop sign/raised hand) and bold, block letters with the words "NOTICE OF PESTICIDE USE", or "HERBICIDE", or "INSECTICIDE".
 12. When transporting pesticides transporter should implement the appropriate transportation practices , and pesticides container must be:
 - Secured to prevent escape, discharge or unauthorized removal from a vehicle
 - Transported in a manner that prevents contamination of food or drink intended for human or animal consumption, household furnishings, toiletries, bedding, clothing, or similar items transported with the pesticide
 13. All pesticides must be stored according to the following requirements:
 - Separated from food intended for human or animal consumption
 - Fumigants and pesticides that release vapors and bear a poison symbol on their label must be stored in a facility that is not attached to or within a building used for living accommodation
 - Pesticide vapors must be ventilated to the outside
 - Storage facility must be locked when unattended and accessible only to authorized persons
 - A storage sign clearly visible to an approaching person must be posted on each access door with the words: "WARNING CHEMICAL STORAGE – AUTHORIZED PERSONS ONLY" written in block letters
 14. All pesticides must be kept, handled, stored, and transported in their original containers with the manufacturer's labels intact.
 15. For any pesticide not in its original container, the new container must be designed to hold the pesticide, and must be labeled with trade name, the PCP number, the active ingredients and their concentration.
 16. Disposal of unused pesticides must be according to the BC Hazardous Waste Regulations, and UBC Procedures, contact 604-822-6306 if you have any question.
 17. A licensee must notify the Ministry of Environment 2 business prior to the first intent to:
 - Use pesticides on public land
 - Use fumigation gas
 - Aerial use of pesticide
 18. All pesticides applicators must follow the basic IPM principles and practices :
 - Prevention - plan and manage environments to prevent organisms from becoming pests;
 - Identification – have a process in place for early identification of pest problems



Procedure

Date of Issue: 15.1.27

- Monitoring- monitor populations of pests and beneficial organisms, the damage caused by pests, and the related environmental conditions;
 - Control and selection -suppress pest populations to acceptable levels using strategies based on considerations of: biological, physical, mechanical, behavioural, and chemical controls in appropriate combinations; and the protection of human health and the environment
 - Thresholds- use injury/damage thresholds in making treatment decisions;
 - Evaluation- evaluate the effectiveness of pest management treatments;
19. All applicators must be aware of the appropriate handling and use procedures required to protect human health and the environment.
20. All application equipment must be properly calibrated and in good working order.
21. An inspection of the treatment area must be conducted prior to pesticide use.
22. Applicator must implement the appropriate precautions to prevent unprotected human exposure to pesticides, and protect domestic water sources and soil
23. All licensees must [submit an annual report of pesticides used](#) to the MOE by January 31, including:
- Name address of licensee and licensee number
 - For each pesticide used in the calendar year: trade name, registration number; active ingredient, amount (Kg), and total area treated
- A copy of this report must be forwarded to RMS Environmental Services
For contracted services, obtain the above information as applicable for your site.
Information to be forwarded to Environmental Services by March 31 each year.
24. When rodenticides are deployed:
- a) They must be placed in rigid walled bait containers
 - b) The area must be inaccessible to people and domestic pets
 - c) The bait needs to contain a bittering agent
 - d) All bait stations must be labeled with appropriate information:
 - The word "Poison" and/or symbol
 - A contact name and phone number
 - The active ingredient(s) and PCP number
25. [Appendix A](#) provides a summary of requirements for each class of pesticides under the IPM Regulations

Definitions

- *Permit-restricted pesticides* ([Schedule 1](#)) - pesticides for which the risk of unreasonable adverse effects from their use should be evaluated for each proposed use; these pesticides are listed by name in the regulation. They are the most strictly controlled, requiring a permit for purchase or application.



Procedure

Date of Issue: 15.1.27

- *Restricted pesticides* - these pesticides have the "RESTRICTED" product class specified on their label. A pesticide applicator certificate is required for their purchase or use.
- *Commercial pesticides*- pesticides that are required to bear a label indicating their general uses in commercial activities as "commercial", "industrial", "agricultural" or another commercial activity.
- *Domestic pesticides*- these pesticides have the "DOMESTIC" product class specified on their label. They are intended for use by non-professionals in or around private homes and gardens.
- *Excluded pesticides* ([Schedule 2](#)) - these pesticides are listed by name or type of use in the regulation. Their use or sale does not require a licence, certificate, permit or confirmation. They are assigned to this class because the Administrator considers that excluding them from requirements for a licence, permit or confirmation will not increase the risk of unreasonable adverse effects
- *PCP Number*- Before a pesticide can be sold or used in Canada, it must be registered under the Pest Control Products Act (PCP Act) and Regulations. The manufacturer must submit data to prove that the product is safe and effective when used as directed on the label, and does not pose an unacceptable risk to plants, animals or the public health. Each pesticide registered in Canada receives a Pest Control Products number or PCP#, this number is the pesticides identification number.



Procedure

Date of Issue: 15.1.27

Appendix A: Summary of Requirements for each Class of Pesticide Under the IPM Regulations

Requirements/ Pesticide Classes	Permit-Restricted	Restricted	Commercial	Domestic	Excluded
Permit required for purchase and all uses	Yes	No	No	No	No
Applicator certificate required for purchase and all uses	Yes	Yes	No	No	No
Purchase must be recorded by Vendor	Yes	Yes	Yes	No	No
Dispenser certificate required for selling pesticides	Yes	Yes	Yes	Yes	No
Vendor license required for selling pesticides	Yes	Yes	Yes	Yes	No
User license required for pesticide uses conducted on a fee-for- service basis	Yes	Yes	Yes	Yes	No
Pesticide user license required for use on specified private or public lands for specified purposes to a defined maximum area per year (see sections 3.3 and 4)	Yes	Yes	Yes	Yes	No
Pest Management Plan and confirmation of receipt of pesticide use notice (PUN confirmation) required for specified pesticide use and lands (see sections 3.6 and 4)	Yes	Yes	Yes	Yes	No
Applicator certificate required to supervise pesticide use by the holder of a license, permit or PUN confirmation	Yes	Yes	Yes	Yes	No
Pesticide use permit required for uses of high concern (e.g., aerial application over urban or residential areas)	Yes	Yes	Yes	Yes	Yes
Use must not cause an unreasonable adverse effect	Yes	Yes	Yes	Yes	Yes

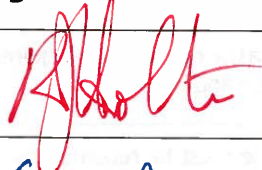


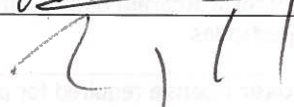


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Approved by:

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