

विषय : विषयी निरीक्षकको तालिम

मिति : २०८०/०८/११ गते सोमबार बेलुका ४:१५ बजे

स्थान : कृषि सूचना तथा प्रशिक्षण केन्द्र, हरिहरमवन

अध्यक्षता : श्री प्रकाश कुमार सन्जेल प्रमुख (पाठ्यक्रम समिति, संयोजक)

अस्थिति :

श्री प्रकाश कुमार सन्जेल, प्रमुख, कृषि सूचना तथा प्रशिक्षण केन्द्र

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निर्णय :

प्लाष्ट कठिपडन तथा विषयी व्यवस्थापन केन्द्रको मिति २०८०/०८/११ च नं ११ को पत्रमार्फत अनुरोध भई प्राप्त विषयी निरीक्षकको हे कार्य दिने तालिम पाठ्यक्रम छलफल गरी परिमार्जन सहित तपसिल बमोजिमको तालिम पाठ्यक्रम स्वीकृत गर्ने निर्णय गरियो ।

Training Curriculum

Training Title: Training for Pesticide Inspectors

Training Duration: 6 Days

Training objectives: By the end of the training the participants will be able to

- Understand the history, evolution of pesticides and its classification.
- Explain the different types of pesticide formulations along with their merits and limitations.
- Understand pesticides' short- and long-term effects on human health and the environment and the ways to minimize their impact with alternative solutions.
- Perform the duties of pesticide inspectors.
- Be familiar with national laws and international conventions, treaties, and intergovernmental organizations in the pesticide management sector.
- Reduce the mishandling of pesticides.
- Identify the relevant stakeholders related to pesticide management and enhance their communication and coordination skills with them
- Explain the Code of Conduct for pesticide management at different levels

Target group: Pesticide Inspector (Officer level)

Class per day: 4

Class Duration: 90 minutes

S.N	Day	Session Topic	Sub-topic	Delivery methods	Session	
					Theory	Practical
1	1	History and evolution of pesticides	Introduction of pesticides History of pesticides (global and national perspectives) Crop loss/havoc examples due to pests (global and national perspectives)	Interactive Lecture PowerPoint presentation Video play	1	
2		Classification of the pesticides	Types of pesticides based on: target pests, chemical composition, mode of action, environmental perspective, WHO classification by hazards, LD ₅₀	Interactive Lecture PowerPoint presentation Sample demonstration	1	
3		Formulation of pesticides	Concept and importance of pesticide formulation, Types of pesticide formulation including new generation, Advantages and disadvantages of different types of pesticide formulations	Interactive Lecture PowerPoint presentation Sample demonstration	1	
4		Risk of pesticides and minimizing strategies	Risk/Hazards of pesticides (Pesticide use, overuse, misuse), Mode of entry, Route of pesticides entry in the human body, Various non-agricultural uses of pesticides its potential risks and remedies, Strategy/ways to minimize the impact on human health	Brainstroming, Interactive Lecture PowerPoint presentation Photo sheet display	1	
5		Assessment of impact of pesticides on human health and first aid measures	Self-surveillance of pesticide poisoning by use of Blacklight, UV light Common presentation of personnel with mental health condition having risk of intentional misuse Suicide risk assessment and co-ordination for care Acute (Accidental and incidental) and chronic toxicity Signs and symptoms of pesticide exposure • First aid measures and referral co-ordination following pesticide exposure	PowerPoint presentation Roleplay -Pesticide retailer and buyer two different scenario -Farmers coming to buy pesticide -Teenager/ Person with Mental health problems buying pesticide	1	1

S.N	Day	Session Topic	Sub-topic	Delivery methods	Session	
					Theory	Practical
6	2	Pesticide use and effects on the environment	Effect of pesticides in agro-ecosystem and environment, Bioaccumulation and bio magnification, Pest resistance to pesticide, pest resurgence and secondary pest outbreak, Short- and long-term effects of highly hazardous pesticides and Persistent Organic Pollutants (POPs)	Interactive Lecture PowerPoint presentation Reference manual	1	
	7	Safe use, transportation and storage of pesticides	Safe use: -Selection of pesticides, doses, frequency (application interval), timing, method of use, reentry interval (REI), pre-harvest interval (PHI), pesticide resistance Use of PPE Transportation, storage and safe handling of pesticides after leakage and breakage	Interactive Lecture PowerPoint presentation Participatory Discussion Practical Demonstration	1	
8	3	International provisions related to pesticide management	FAO/WHO guidelines -Basel Rotterdam Stockholm (BRS), Minamata, SAICAM, Montreal, Convention on Biodiversity (CBD) -International code of conduct on pesticide management -FAO tool kit	Interactive Lecture PowerPoint presentation Internet surfing	1	1
		National legal provisions on pesticide	Pesticide Management Act, 2019, Registration process of pesticides and licensing, Pesticide regulation, directives, guidelines -Other relevant laws and regulations related to pesticide - Pesticide label and its role in pesticide management.	Interactive Lecture PowerPoint presentation Photo sheet display.	2	
10	4	Roles and responsibility of pesticide inspectors	Roles, responsibility and power of pesticide inspector - legal provisions and cross-cutting issues -Provision regarding offense, Punishment, Investigation of filling case, Compensation, -Challenges faced by pesticide inspectors	Interactive Lecture Role play Case study	1	
			Mock drill test for law enforcement	Field visit, Muchulka and paperwork, and group discussions /feedback		2
		Obsolute Pesticide Management	Legal provision Date expired pesticide Leakage/Breakage/Spillage Banned pesticide Disposal of pesticide containers and pesticides	Lecture Power point Presentation	1	
		Noble practices of pest management,	IPM: Concept, definition, principles and approaches (Bio rational, microbial pesticides, bio pesticides, lures/ traps, Predators, Parasitoids) Indigenous methods of pest management, Introduction and use of nuclear technology (Radiation, beam light, Gamma rays, etc.)	Interactive Lecture PowerPoint presentation Participatory Discussion Practical Demonstration	2	

S.N	Day	Session Topic	Sub-topic	Delivery methods	Session	
					Theory	Practical
10	5		-Concept of Whole Farm Approaches, Good Agriculture Practices (GAP), Organic Agriculture, Permaculture Concept on economic thresholds level and economic injury level, Agro-Ecosystem Analysis (AESAs)		2	
12	6	Coordination and stakeholder engagement	Coordination with different stake holders: government , non-government, private, community and individuals, Gap analysis and its resolution	Brain storming, Group Work Interactive Lecture PowerPoint presentation Participatory Discussion Exercise	1	
13		Communication and Facilitation skills	Introduction, Importance, Methods of Good Facilitation	Brain storming, Interactive Lecture PowerPoint presentation Participatory Discussion Exercise/ Role play	1	
14		Record Keeping and Reporting	Existing practices and their applicability Regulatory Actions Inspection report Suicide and self harm by misuse of pesticides	Format development Participatory Discussion	1	
15			Pesticide consumption data collection, analysis and reporting	Format development Participatory Discussion	1	
Total technical classes					20	4