

Physical Training Title –

Management of the Pesticides and their Residues for the Protection of Food Crop

Course Synopsis	<p>Agrochemicals, like pesticides protects the crop from the non-beneficial organisms (Pests) and makes the agriculture economical viable. Pesticide use is not simply restricted to agriculture but it is applied in warehouses, homes, public transports and commercial establishments. Quality of the pesticide formulations and bio/ botanical products (meant for organic cultivation) has a greater influence on the health of the crop and residues.</p> <p>Residues of Pesticides in the food commodities are an important concern for the food producers, consumers and the regulating bodies of governments across the globe.</p> <p>This course encompasses the various aspects of the Pesticides viz., their history, types, classes, mode of action, Quality Assurance and Quality Control, and their future prospects. Course also envisaged covering the root cause analysis of the pesticide residues, their impact on the environment and the human health. Practical demonstration of the available analytical techniques for the analysis of the Pesticide Residues will complete the course.</p>
Course Duration	14 Days (Physical mode, includes Theory, Lab practical demonstrations and Field visits)
Justification/ Rationale	All the Agriculture Officers, Chemists, Analysts and the stake holders of the food safety and security should be aware about the subject of the Current Scenario of Regulations around the world and the how it is analyzed in the laboratory.
Aims & Objective of the course	<p>Training aims to aware the trainees about the various efficient means of managing the chemical and botanical/biological means of the pest control & Maximum Residue Limits (MRLs) or permissible limits of the pesticide residues in the agricultural crops, exported food products. Core objectives of the training program are;</p> <ol style="list-style-type: none">1. Awareness about the available chemical and biological/ botanical products for the crop protection2. Genesis of the chemicals/ agrochemicals use in the

	<p>agriculture leading to its future scenario</p> <ol style="list-style-type: none"> 3. Various analytical methods for the quality assurance of the agrochemical products 4. Agriculture Practices leading to the Residues in the Crop 5. Analytical techniques for the estimation of the Pesticide Residues 6. Impact of Residue on the Human health and Environment 7. Effect of the Pesticide Residues on the Agriculture Export.
Expected Outcome of the course	<p>On successful completion of this course trainees will be well informed and updated upon;</p> <ol style="list-style-type: none"> 1. Commercially available pesticide formulation products, Biological / Botanical Products 2. Past, Present and Future Scenario of the chemical means of the crop protection 3. Analytical methods/ approach for chemical analysis of the chemical/ botanical pesticides 4. Short and Long Term effect of the pesticide Residues on human health and environment 5. Different analytical techniques of the Pesticide Residue Analysis 6. Right Agriculture practice to reduce the pesticide residues 7. Pesticide residue limits of the different countries
Eligibility conditions of the participants	<ul style="list-style-type: none"> • Graduate & above in the subject, Chemistry, Agricultural chemistry, Botany, Entomology, Biotechnology, Agriculture, and allied science.
Target Participants	<ul style="list-style-type: none"> • Agriculture officers, chemists, Analysts, Scientists, Technical officers, Scientific Officer, Research Scholars, Research Associates, etc. • Import / Export Executives, officers,

