

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 <i>viz.</i>, 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 (Theory, Lab practical demonstrations and Field visits)
Justification/ Rationale	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 make the participants aware about the efficient management of pesticides for 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 to make the participants aware about:</p> <ol style="list-style-type: none">1. Genesis of the chemicals/ agrochemicals use in the agriculture leading to its future scenario2. Quality assurance of the agrochemical products3. Agriculture Practices leading to the Residues in the Crop4. Impact of Residue on the Human health and Environment5. Effect of the Pesticide Residues on the Agriculture Export.6. Analytical techniques for the estimation of the Pesticide Residues

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. Past, Present and Future Scenario of the chemical means of the crop protection and Pesticide management 2. Analytical methods/ approach for chemical analysis of the chemical/ botanical pesticides for pesticide quality assurance. 3. Short and Long Term effect of the pesticide Residues on human health and environment 4. Right Agriculture practice to reduce the pesticide residues 5. Pesticide residue limits of the different countries 6. Different analytical techniques of the Pesticide Residue Analysis
Eligibility conditions of the participants	<p>Graduate & above in the subject, Chemistry, Agricultural chemistry, Botany, Entomology, Biotechnology, Agriculture, and allied science.</p>
Target Participants	<ul style="list-style-type: none"> • Agriculture officers, chemists, Analysts, Scientists, Technical officers, Research Scholars etc. • Import / Export Executives, officers,