

Minimising pesticide residues

Reduce your risk • Keep safe and legal
Grow reputation with customers and consumers



Designed for:

Technical and Quality members of staff, e.g. agronomists who prescribe pesticides, who wish to update knowledge or understanding of why some pesticides are at higher risk of leaving residues in produce, and any risks associated

Entry requirement:

An advanced course best suited to **accomplished** practitioners who want to implement the latest agri-tech research and knowledge on farm

Price:

£225 + VAT

Duration:

A one day classroom-based course

CPD points:

CPD points to be awarded

Learning outcomes:

At the end of this course you will be able to:

- UK/EU/Worldwide legislation
- Laboratory procedures
- Testing programme design
- Sampling for laboratory analysis
- Management for residue minimisation
- Consumer risk assessment on soils, yields and margins

Content:

Classroom module 1 (half day) – The principles of safe pesticide residue management:

- Introduction to pesticide legislation:
 - EU legislation
 - Worldwide legislation
 - Derivation of MRLs
 - ADI/ARfD/Toxicology vs Consumption
 - Breakdown characteristics Koc, Kdr and impact of temperature and light on breakdown
 - Metabolic pathways to activity, i.e. basic chemistry of how key fungicides work and where to find this information
 - Plant structures and why residues are different in roots/fruit compared to leaves (in the same crop)
- Laboratory procedures:
 - Analytical procedures, with examples of how tests work for key pesticides e.g. OP's and azoxystrobin and boscalid
 - Quality control
 - Accreditation
- Sampling procedures:
 - Field sampling
 - Pack house sampling

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Minimising pesticide residues continued



Classroom module 2 (half day) – Optimising pesticide use for practical growing:

- How to design a testing programme fit for purpose, and what are the costs involved
- Case studies from industry. Examples of typical pesticides in use and their 'watch outs', notably when they have long tails and why? e.g. Mancozeb, triazoles, azoxystrobin, boscalid, pyrethroids, OP insecticides
- How agronomy protocols can be dictated by end customers and impacts on residues
- How to look at pesticide use from POV of minimising pesticide residues, e.g. time of the season for application, dose rate decline curves and their dependences, application techniques, resistance development
- How to design a process that flags and manages pesticide residue issues, e.g. call out when 50% MRL and how to call out and develop corrective action for MRL exceedances
- Review of PRiF reports on crops, e.g. Roots, Lettuce and Kale
- Consumer risk assessment:
 - Link to food safety
 - Using modelling tools to assess consumer impact of residues

Trainer:

Eleanor Long, Independent Consultant



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