

Advanced Disease Management and Control in Cereal Crops

Protect yield and quality • Maximise effectiveness of control
• Save on product, time and applications

Designed for:

Individuals responsible for making key decisions on the profitability and success of cereal production using the latest information available for crop health, IPM and disease control in cereals, specifically, wheat, barley, oats and rye.

Entry requirements:

An advanced course best suited to farmers, agronomists and specialists who are already BASIS qualified or have relevant qualifications in crop protection and plant health. For an entry-level to intermediate course, see Disease Management and Control in Cereal Crops (CP13)

Price:

£245 + VAT

Duration:

A one day classroom based course

CPD points:

6 BASIS and 5 NRoSO

Learning outcomes:

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

- Have an in-depth understanding of crop-fungal interactions and how this impacts on virulence and fungicide resistance.
- Understand the implications of new disease threats as a result of changes in climate and farming practices, and how best to mitigate against them
- Know how best to employ available diagnostic tools to identify factors affecting crop health.
- Be able to critically appraise different IPM options for their economic and environmental merit.
- Understand how economic, environmental and social drivers are affecting current and future crop protection practices

Content:

Classroom module 1 (half day)

- The basis of pathogen virulence, fungicide resistance and how diseases overcome both varietal and fungicide resistance.
- The implications of climate change and move towards conservation agriculture practices on new disease threats.
- The merits of, and how best to use available forecasting, detection, monitoring and thresholds.
- An in-depth look at fungicide development, new fungicide groups, their mode of action and resistance status considering currently available chemistry
- Modes of action of bioprotectants and biostimulants and their contribution to crop health.

Classroom module 2 (half day)

- The merits and future uses of gene editing and synthetic biology approaches (such as RNAi) in crop protection.
- How changes in policy such as statutory plant health measures, stewardship options and pesticide legislation will affect crop protection.
- Planning and development of an integrated strategy for crop health management taking into account acceptability to users and their impact on agricultural and non-agricultural ecosystems.

Trainers:

Aoife O'Driscoll, NIAB,
Crop Protection and Agronomy Specialist