

# Advanced nutrient management for combinable crops

Optimise yield and quality • Save time and resources • Improve the cost effectiveness of nutrient management

## Designed for:

Farmers, agronomists and technical specialists who want to build on their existing knowledge with the latest science and research evidence to improve the targeting and cost-effectiveness of their combinable crop nutrient management. This course would be suitable for those who are already FACTS qualified and want to build on this knowledge. For a lower-level course see nutrient management for combinable crops (NM04)

## Entry requirements:

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

## Price:

£245 + VAT

## Duration:

A one day classroom-based course

## CPD points:

6 BASIS, 6 NRoSO

## Learning outcomes:

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

- Assess a soil's ability to supply macro-nutrients
- Interpret soil nutrient test results
- Optimise fertiliser applications at individual crop/field level
- Use organic manures for nutrient supply
- Maximise macro-nutrient uptake and efficiency of use
- See possible roles and benefits of inhibitors, additives and biostimulants
- Understand the rationale and evidence behind spatially variable nutrient management
- Identify micronutrient deficiency the risks of micronutrient deficiency and the likelihood of a response

## Content:

### Classroom module 1 (half day)

- How macronutrients exist in the soil, and their availability
  - Interactions between macronutrients in the soil
  - Interpreting the results of soil nutrient testing
- Macronutrient requirements for crop yield and quality
- Adjusting fertiliser applications for soil nutrient supply
  - Comparing N recommendation systems, including canopy management

Calculating P and K requirements from first principles

- The implications of under- or over-fertilising

### Classroom module 2 (half day)

- Factors affecting fertiliser efficiency
- Effectiveness of different fertiliser types, inhibitors and other additives
- Contribution of biostimulants to crop nutrition
- Making the most of organic manures
- Spatially variable macronutrient application
- Micronutrient behaviour in soils and plants
- Macro/micro-nutrient interactions
- Micronutrient requirement of crops and understanding responses
- The role of micronutrients in crop health

## Trainers:

Stuart Knight, Deputy Director, NIAB