

# 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 *Optimising nutrient management for combinable crops (NM04)*

**Entry requirement:** **Accomplished** practitioner

**Price:** £225 + VAT

**Duration:** A one day classroom-based course

**CPD points:** 6 BASIS; 1 NRoSO point

## 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

**Trainer:** Stuart Knight, Deputy Director, NIAB



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NM01

Nutrient  
Management