

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

CPD points: 6 BASIS points; 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