



Agri-tech Register
and Training for
Innovation and Skills

2014/15 Training Courses



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Agri-tech Register and Training for Innovation and Skills



*Improving knowledge and skills,
growing your business*

Accessing the most relevant and up-to-date information on agronomy, new technologies, regulatory and economic issues that can be translated into practices that farmers and growers can use is a continuing issue for the arable and horticultural sectors.

This is where ARTIS can help.

ARTIS is an industry-led accredited training initiative, launched in 2014 and developed by G's Growers, NIAB, LANTRA and East Malling Research, with funding from UK Commission for Employment and Skills. We are focused on improving the consistency, quality and accessibility of training for farm businesses and employers of all sizes operating in the arable, vegetable, salad crop and fruit sectors.

Our sector-specific steering groups of farmers, employers and industry representatives identify priority issues where training is vital for farmers and growers. The course structure is developed by NIAB, with input from agronomists, experts and consultants from a range of industry organisations and businesses.

The focus is on practical skills-based training to suit you and your business – in the classroom, in the field and online – delivered by accredited training providers and leading experts in the subject.

Ultimately, ARTIS gives you the freedom to create your own personalised, professional development training programme. It allows you to build on your existing qualifications and experience, and develop the understanding and skills to optimise your crop's performance levels.

“ ARTIS offers quality training courses which are based on the latest industry research – something which will add value to any farmer, growers or manager looking to maximise efficiency and increase productivity. ”

Sir Jim Paice MP, Chair, ARTIS Steering Board





Course structure

Each course fits into one of our five areas of crop production:

- **Soil and Water** covers soil and water management, crop irrigation, tillage, drainage and managing compaction;
- **Crop Protection** focuses on weed, pest and disease management and spray applications;
- **Nutrient Management** includes macro and micro nutrient management, reducing environmental risk and recognising crop deficiencies;
- **Farming Systems** includes new technologies, managing rotations, building soil fertility, precision farming, machinery use and legislative change;
- **Practical Agronomy** covers achieving optimum output for minimum input and developing agronomy techniques.

Many courses will be specific to either arable, vegetable and salad crops so please check before booking your place. They will be delivered by ARTIS accredited trainers and will typically be one day's training, made up of two half-day classroom and/or field-based modules, for up to 15 people.

All participants receive an ARTIS Accredited Certificate. These will carry the CPD points allocated by any of the relevant industry accreditation schemes. It proves you have completed the course and can be added to your training record.

Course entry requirement

Each course has an entry level requirement as a guide to the content covered:

- 1 **Awareness** of the subject – suitable for new graduates, trainees and entrants into the sector;
- 2 **Able** to demonstrate practical experience – aimed at established farmers, farm managers, contractors and industry professionals looking for new and updated information and advice;
- 3 **Accomplished** practitioner – an in-depth look at the science and research behind the subject and how it can be translated into practice on-farm.

Booking a course

This guide summarises the classroom and field-based courses available from Autumn 2014.

Further details on each course, including benefits, dates and locations, are available online. New courses will be added onto the website throughout the year.

To book a course, check dates or locations, or to register your interest in future training opportunities go to www.artistraining.com.

You will find courses running at venues across the country and we will consider any requests for new venues and dates. Please contact us for more information on any of the courses.

Fees

A typical day course will cost £200 + VAT with secure online payment at time of booking. Places on any courses are only secure upon receipt of full payment. Bookings via email MUST NOT contain card payment details.

For our cancellation procedures please check online.

Build your own training programme

We are here to help you keep up to date with the latest technologies and techniques. If you cannot find the right course for you, ARTIS can design and build a customised training programme that suits you and your business. Contact us to discuss possible opportunities.

Online training

An online training programme will be available from Winter 2014.

Accredited trainers

Contact us if you are interested in becoming an ARTIS accredited trainer. We are looking for trainers from across all sectors and subjects. Accreditation is subject to review by a trainer assessment panel.

Contact us

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Soils – Foundation

Designed for:

Individuals who wish to understand the essentials of good soil management and improve their on-farm cultivation decisions. The principles addressed are relevant across all crops. Discussions will be adapted to the technical issues of most interest to participants.

Entry requirement:

Awareness of the subject matter recommended.

Dates and locations:

Dates at various UK locations with different soil types available from November 2014.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day) – The principles of good soil management:

- management opportunities for/limitations of different soil types (including hand texturing – shared experience and practice);
- crop rotations and cultivations for contrasting soil types;
- factors that cause and influence soil variability in space and time, as well as on-farm management practices to deal with these factors;
- the importance of soil organic matter and how to maintain/enhance levels.

Field module 2 (half day) – Practical soil assessment:

- soil type identification and interpretation;
- visual soil evaluation of the soil structural effects of compaction, and management practices to improve soil structural conditions;
- assessing soils in relation to previous management;
- practices to improve soil fertility and productivity;
- investigating the effects of different cultivation systems on soil conditions;
- the need for under-drainage systems and secondary mole drainage.

Principles of water management and crop irrigation



SW02

Designed for:

Individuals who wish to understand how best to manage the irrigation of potato, field vegetable and salad crops to improve crop yields and quality.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November 2014.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – The principles of irrigation management:

- yield and quality benefits of irrigation for different crop species;
- assessing the site and field condition to inform irrigation management decisions;
- understanding field capacity, crop available water supply; infiltration rates for different soil types;
- estimating soil moisture using soil moisture sensors or modelling techniques;
- developing crop irrigation schedules for a range of crop species.

Classroom module 2 (half day) – Optimising irrigation in practice:

- examples of commonly used soil moisture sensors – their benefits and limitations;
- irrigation application equipment - review of the types of equipment available, including rain guns, booms, linear irrigators and drip systems;
- key actions to optimise performance of equipment including operating pressures and droplet size;
- recording water use and application uniformity;
- compliance with relevant environmental legislation;
- applying irrigation effectively and efficiently during a cropping season.

Principles of soil and water management (non-irrigated crops)



SW03

Designed for:

Individuals who wish to understand how to manage soil quality, cultivations, land drainage and field margins to achieve optimum and sustainable crop yields and quality in non-irrigated arable crops and break crops.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in January and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day) – Soil, land management and drainage:

- presentation and discussion session covering soil, land management and drainage theory and practice;
- understanding ways of reducing the risk of soil compaction, runoff, loss of nutrients and surface applied pesticides from land to water courses, including both conventional and innovative emerging methods;
- considering alternative management practices for cultivation and drainage of individual fields; and understanding their relative costs, benefits, risks and the effects of variable weather conditions.

Field module 2 (half day) – Practical guidance on soil and drainage management:

- exploring evidence of cultivation effect on soil structure and drainage, and implications for optimal management;
- using soil pits and 'digs' to assess intrinsic and management-related soil characteristics and identify practical cost-effective methods to remedy problematic situations.



Practical management of soil compaction



SW04

Designed for:

Individuals who wish to understand the impact of soil compaction on crop performance, the cost implications and the options available to prevent and alleviate compaction in the sub-soil layers.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November 2014, December 2014 and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day) – Causes and cures of soil compaction:

- the impact of soil compaction on crop production and methods of assessment;
- the implications of soil type, soil conditions and organic matter content on compaction;
- tyres and compaction, including the implications of load, tyre inflation pressure, design, working speed, conditions and number of passes;
- alleviating compaction through Controlled Traffic Farming (CTF) and a practical approach to making a transition to CTF.

Field module 2 (half day) – Practical guidance on reducing compaction:

- the tools, skills and technologies available to identify and measure compaction on farm;
 - the practical options available to minimise compaction;
 - the practicalities of making a transition to controlled traffic farming.

Spray applications

Designed for:

Individuals who wish to develop their understanding of the technical aspects of application, improve their efficiency and environmental practice.

Entry requirement:

Accomplished practitioner.

Dates and locations:

Dates at various UK locations available in January to March 2015.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day) – Optimising spray applications:

- target and chemical interaction – how differences in target structure, volume and droplet size and trajectory influence deposition;
- the effects of droplet size and volume on coverage, retention and distribution of chemical on plant surfaces;
- the importance of timely applications;
- the importance of boom height, nozzle type, speed and weather conditions to spray drift.

Field module 2 (half day) – Improving spray efficacy:

- reviewing methods of safe handling, storage and disposal of agrochemicals;
- the major sprayer faults that affect efficacy;
- identification of worn or damaged nozzle tips, recognising the causes and the consequence of their use;
- measures that can be adopted to reduce the risk of pesticides reaching water.



Principles of weed and pest management in combinable crops



CP02

Designed for:

Individuals who want to understand the principles of effective pest and weed management in combinable crops.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in January and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – Weed identification and management:

- identification of common weed species and use of reference materials;
- germination patterns, crop-weed competition, seed bank dynamics, dormancy and control thresholds;
- non-chemical control methods including mechanical, cultivation, rotation, crop competition and spring cropping;
- herbicide classes, timing, and current status of resistance.

Classroom module 2 (half day) – Pest identification and management:

- identification and biology of common pests found in combinable crops and their economic importance;
- forecasting, detection, monitoring and thresholds;
- identification and role of beneficial insects;
- chemical and non-chemical control options including use of rotation, cultivation and resistant varieties;
- discussion of the main insecticide groups, their mode of action, method of delivery and resistance status and impact on beneficial insects;
- implications of climate change and new pest threats.



CP03

Black-grass management – theory into practice

Designed for:

Individuals who wish to improve their black-grass management in combinable crop rotations.

Entry requirement:

Accomplished practitioner.

Dates and locations:

Dates at various locations in November and December 2014 with the follow-up module in June 2015 (often held on same day and location as *CP05 – Disease management in oilseed rape* or *PR02 – Crop agronomy for combinable pulses* half day modules).

Cost: £200 + VAT.

Duration:

Two half day modules.

Content:

Classroom module 1 (half day – November/December)

The biology and management of black-grass:

- understanding the biology of black-grass to help formulate control strategies;
- cultural control and the achievable levels;
- herbicides – their activity and fate;
- maximising herbicide control and implications of resistance;
- value and interpretation of resistance testing;
- managing black-grass across the rotation while still making money;
- using a decision tool to calculate economic impacts of management strategies across the rotation.

Field module 2 (half day – May/June)

Practical aspects of black-grass control:

- demonstration of spring cropping, delayed drilling, cultivation, competitive varieties;
- field examination of chemical control;
- quantifying black-grass populations;
- discussion of new research concepts including cover cropping, inter-row spraying, patch spraying, mapping and remote sensing.

Disease management in wheat



CP04

Designed for:

Individuals who wish to understand the more technical aspects of disease control and how this can affect the success of wheat production.

Entry requirement:

Accomplished practitioner.

Dates and locations:

Dates at various UK locations available from November 2014 through to March 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – Advanced management of wheat disease:

- an overview of plant development with particular emphasis on the impact of disease at different growth stages upon yield and grain quality;
- managing key diseases, understanding epidemiology of key diseases and how fungicide programmes need to be designed to cope with new disease threats;
- discussion on the types of fungicides available, their modes of action and how the timing of fungicide applications affects the development of the disease.

Classroom module 2 (half day) – Advanced control strategies:

- the impact of fungicide resistance on disease control strategies;
- designing fungicide programmes for the future, taking into account resistance issues, loss of active ingredients, EU legislation and its possible effects on fungicide use.

Disease management in oilseed rape

Designed for:

Individuals who wish to understand how the technical aspects of oilseed rape disease control affect the success of crop production.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November and December 2014 (often held on same day and location to CP03 – *Black-grass management* or PR02 – *Crop agronomy for combinable pulses* half day modules).

Cost: £100 + VAT.

Duration:

A half day classroom-based course.

Content:

Classroom module 1 (half day) – Management of OSR disease:

- identification of the principal OSR diseases during plant development with particular emphasis on the impact of disease at the different stages upon yield and seed quality;
- the types of fungicides available, their modes of action and how the timing of fungicide application controls the development of disease;
- designing fungicide programmes;
- EU legislation and its possible effects on fungicide use;
- an overview of future developments in OSR disease control.

Optimising nutrients for combinable crops



NM01

Designed for:

Individuals interested in the latest thinking on the management of soil and fertiliser nitrogen (N), phosphorus (P), potassium (K), sulphur (S) and magnesium (Mg) for cereals, oilseeds and pulses and circumstances where micro-nutrient fertiliser is needed.

Entry requirement:

Accomplished practitioner.

Dates and locations:

Dates at various UK locations available in February and March 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – Soil and crop nutrient supply and demand:

- how macro-nutrients exist in the soil;
- what determines soil nutrient availability to plants;
- best practice for soil nutrient testing;
- interactions between nutrients in the soil;
- adjusting fertiliser applications for soil nutrient supply;
- determining the potential contribution of organic manures, biosolids and other amendments to crop macro-nutrient requirement;
- estimating combinable crop fertiliser requirements for yield and quality.

Classroom module 2 (half day) – Efficient use of nutrients:

- micronutrient deficiencies and how to calculate fertiliser requirements;
- different forms of N, P, K, S and Mg fertilisers;
- factors affecting the uptake, use efficiency and losses of macro-nutrients;
- complying with legislation on organic manure, biosolids and fertiliser use;
- spatially variable application of N, P and K.

Principles of nutrient management in field vegetables



NM02

Designed for:

Individuals interested in the management of soil nutrient supply and plant uptake of N, P, K, S, Mg and micro-nutrients for field horticultural crops.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November 2014 and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – Soil and crop nutrient supply and demand:

- how nutrients exist in soil, their interactions and what determines soil nutrient availability to plants;
- best practice for soil nutrient testing and how to adjust fertiliser applications in relation to soil nutrient supply;
- value of organic amendments;
- estimating field horticultural crop fertiliser requirements for yield and quality;
- micro-nutrient deficiencies;
- different forms of N, P, K, S and Mg fertilisers.

Classroom module 2 (half day) – Recent developments in nutrient management:

- compliance with Red Tractor and other protocols, and responsibilities under FIAS;
- carbon footprints and understanding the impact of the use of different types of fertiliser, notably abated and non-abated N;
- identify opportunities to improve quality and shelf life with correct and amended nutrition.



Rotations and soil fertility in combinable crops



Farming Systems

FS01

Designed for:

Individuals who wish to understand how to manage rotations and build soil fertility to optimise crop yield, cost and margin.

Entry requirement:

Accomplished practitioner.

Dates and locations:

Dates at various locations in November and December 2014 and in February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day) – Building rotational systems:

- an overview of soil function including the maintenance of soil structure, the need for fertility and the value organic matter/types of organic matter;
- the different methods of cultivation and establishment;
- matching establishment systems to crops and specific farm scenarios;
- building arable rotations;
- rotational performance - using long term data sets from large scale arable rotation studies to consider agronomic constraints and practical considerations as well as yield, cost and margin.

Classroom/Field module 2 (half day) - Building system fertility:

- why we need fertility and building fertility and organic matter in arable systems;
- the use of different soil amendments;
- the value and benefits of straw incorporation;
- choosing the right cover crop option and other aspects that need to be considered;
- key soil indicators – structure, worms and assessment;
- case studies of the performance of cover crops and soil amendments in long term projects – quantifying impacts on soils, yields and margins.

Practical approaches to precision farming

Designed for:

Individuals who wish to understand how to appraise key precision technologies and set priorities for investment based on understanding the value of the output to the farm business.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various locations in November 2014 and January to March 2015.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day) – Building rotational systems:

- an introduction to the kit, tools and skills needed to implement precision farming technologies including mapping and imaging technologies, variable rate applications and GPS guidance;
- best practice approaches to integrating the data generated by precision systems into agronomic decisions;
- the costs and benefits of precision technologies to the farm business.

Field module 2 (half day) - Precision farming technologies:

- practical understanding of the different technologies and case studies.



Crop agronomy for cereals and oilseed rape

Designed for:

Individuals who wish to understand how the technical aspects of crop and soil husbandry affect the success of cereal and oilseed rape production.

Entry requirement:

Awareness of the subject.

Dates and locations:

Dates at various UK locations available in from November 2014 to February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom and field-based course.

Content:

Classroom module 1 (half day):

- examining soil types and soil structures and the effects of cultivation;
- an overview of nutrients and the effects they have on crop production;
- crop growth stages, how to recognise them and their importance in relation to crop management decisions;
- the effects of plant growth regulators.

Classroom/Field module 2 (half day):

- effect of weeds on crop yield and quality;
- identification of the most common weeds;
- types of herbicides and their effects;
- impact pests and diseases can have on crop yield and quality;
- identification of the most common diseases;
 - types of fungicides and their effects;
 - identification and life cycle of some common pests and methods of control.



Crop agronomy for combinable pulses

Designed for:

Individuals who wish to learn more about growing combinable pulse crops, the agronomic considerations for production and the impacts of their inclusion in crop rotations.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November and December 2014 (often held on same day and location as CP03 – *Black-grass management* or CP05 – *Disease management in oilseed rape* half day modules).

Cost: £100 + VAT.

Duration:

A half day classroom-based course.

Content:

Classroom module 1 (half day):

- why might you include pulses in your rotation?
- the decision process when choosing a pulse crop;
- key facts on growth stages, populations, yield parameters, quality traits and storage;
- understanding key diseases and pests of combining peas and field beans;
- weed management in pulse crops (combining peas, field beans and lupins);
- nutrient requirements in pulse crops;
- designing a suitable crop input programme for combining peas, beans and lupins;
- pulses in the farming system – rotational position, establishment systems and economics.



Optimising spring agronomy in winter wheat



PR03

Designed for:

Individuals who wish to acquire hands-on training on best approaches to manipulate crop structure, disease control and crop nutrition in winter wheat.

Entry requirement:

Able to demonstrate practical experience. Ideal follow-on from ARTIS course *PR01 - Crop agronomy for cereals and oilseed rape*.

Dates and locations:

Dates at various UK locations beginning in March 2015.

Cost: £200 + VAT.

Duration:

Each course consists of four two-hour field-based modules to be taken on separate days in March, April, May and June.

Content:

Field module 1 (March, two hours) – Foundation for spring growth (GS 30-31):

- identifying key growth stages in wheat development, spring weed control, T0 sprays and fertiliser applications.

Field module 2 (April, two hours) – Management of early spring growth (GS 31-33):

- thermal time and leaf development, tiller numbers and targets, T1 target diseases.

Field module 3 (May, two hours) – Management of late spring growth (GS 33-39):

- SDHI chemistry, growth regulation, timing of flag leaf sprays and late season weed control.

Field module 4 (June, two hours) – Planning for harvest and beyond (GS 39-87):

- the complexities of ear diseases and treatment timings, evidence for extended disease control, the need for nitrogen for quality wheat and weed mapping.



Crop management of vegetable brassicas

Designed for:

Individuals who wish to understand more about production methods and agronomic inputs in vegetable brassicas, with the aim of achieving optimum yields and quality.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November 2014 and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – The principles of Integrated Crop Management and field planning:

- land block rotations, field selection per year, soil structure and soil health;
- how to set up fields, pre-planting work e.g. weed control, populations and spacing, establishment methods, use of crop covers and relative costs of operations;
- fitting fields into supply chain patterns, i.e. crop continuity;
- understanding, recognising and managing common weeds, pests and diseases;
- impacts of water, nutrition and weather issues.

Classroom module 2 (half day) – Optimising growing in practice:

- life cycles, pest traps and in-field weather data to drive responses to pests and diseases;
- use of herbicides, fungicides, insecticides and biological compounds and 'safe and legal' systems;
- development of yield and quality data and residue monitoring data.



Crop management of root vegetables

Designed for:

Individuals who wish to understand more about production methods and agronomic inputs in root vegetables, with the aim of achieving optimum yields and quality.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November 2014 and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – The principles of Integrated Crop Management and field planning:

- land block rotations, field selection per year, soil structure and soil health;
- how to set up field, pre-planting work e.g. weed control, populations and spacing, establishment methods, use of crop covers and relative costs of operations;
- fitting fields into supply chain patterns i.e. crop continuity;
- understanding, recognising, and managing common weeds, pests and diseases;
- impacts of water, nutrition and weather issues.

Classroom module 2 (half day) – Optimising growing in practice:

- life cycles, pest traps and in-field weather data to drive responses to pests and diseases;
 - use of and costs of herbicides, fungicides, insecticides and biological compounds and 'safe and legal' systems;
- development of yield and quality data and residue monitoring data.



Crop management of salad crops



PR06

Designed for:

Individuals who wish to understand more about production methods and agronomic inputs in salad crops, with the aim of achieving maximum commercial yields and quality.

Entry requirement:

Able to demonstrate practical experience.

Dates and locations:

Dates at various UK locations available in November 2014 and February 2015.

Cost: £200 + VAT.

Duration:

A one day classroom-based course.

Content:

Classroom module 1 (half day) – The principles of Integrated Crop Management and field planning:

- land block rotations, field selection per year, soil structure and soil health;
- how to set up fields, pre-planting work e.g. weed control, populations and spacing, establishment methods, use of crop covers and relative costs of operations;
- fitting fields into supply chain patterns, i.e. crop continuity;
- understanding, recognising and managing common weeds, pests and diseases;
- impacts of water, nutrition and weather issues.

Classroom module 2 (half day) – Optimising growing in practice:

- life cycles, pest traps and in-field weather data to drive responses to pests and diseases;
- use of and costs of: herbicides, fungicides, insecticides and biological compounds and 'safe and legal' systems;
- development of yield and quality data and residue monitoring data.





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 @ARTIStraining

Partners

NIAB is a major UK centre for plant science, crop evaluation and agronomy. With an internationally recognised reputation in independent research and information and knowledge transfer, NIAB develops and manages the ARTIS training programme.
www.niab.com



Owning and heading up the ARTIS project **G's Growers Ltd** is an independent producer organisation, working in the vegetable and salad crop sectors, comprising more than 20 grower members in the UK and Spain who work together to share expertise, experience and knowledge.
www.gs-growers.com



Lantra – the Sector Skills Council for land-based and environmental industries – develops training products and services that ensure the sector has a world class, highly skilled workforce. Lantra leads on employer engagement, accreditation and quality assurance for the ARTIS training programme.
www.lantra.co.uk



East Malling Research is a major organisation in the UK for research on horticultural crops and plants and their interactions with the environment, providing expertise and knowledge from the sector to the ARTIS programme.
www.emr.ac.uk



Contributing organisations

ARTIS works with leading businesses and organisations across the arable and horticultural sectors including: ADAS, Harper Adams University, PGRO, Warwick Crop Centre and VCS Agronomy.

Funding

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www.ukces.org.uk



HM Government