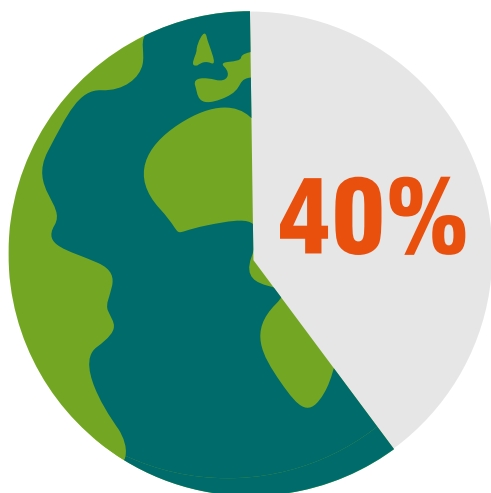


A photograph of a tomato vine with several brown, damaged tomatoes and some withered, brown leaves in the background, illustrating crop pest damage.

Crop Pest Diagnosis and Management

Learn how to diagnose and manage pests and diseases in the field with the **CABI Academy**



**OF CROPS
WORLDWIDE ARE
LOST TO PESTS**

www.cabi.org/academy

Supporting healthy plants through digital learning

Powered by:



Based on CABI's award winning Plantwise programme we have brought together our expertise in plant health and diseases to create a suite of online interactive training courses.



The courses are designed to support teachers and trainers in agricultural education institutions and in the workplace. They provide interactive exercises and resources to help participants learn about diagnosing and managing pests & diseases.

The materials work equally well for self-study, as they provide all the information and context required.

The **two** interactive courses, **Crop Pest Diagnosis** and **Crop Pest Management**, together provide a comprehensive methodology to diagnose and proactively control pests and diseases.

The courses contain information and activities to help users improve their ability to recognise symptoms and identify causes.

Benefits

To the user:

- **Accessible** – The materials can be accessed online or, using our platform's mobile app, can be downloaded for use offline too
- **Flexible** – The materials can be used for step-by-step self-study or for “dipping in” to support a specific teaching or learning need
- **Certification** – Successful completion of each course brings a CABI Academy certificate

To the organization:

- **Simple setup** – The materials are hosted on CABI's learning platform, and so can be accessed in a number of ways:
 - Directly, via a unique login created for each user
 - Via an LTI link from your organisation's learning platform
- **Quality** – Based on the award winning Plantwise programme, the courses can be used by teaching staff to build lessons relating to pest management modules or used as a remote training tool for professional development.



Crop Pest Diagnosis

This course teaches the hands-on skills needed for field-based diagnosis of plant pests, focusing on a methodology for diagnosis including:

- Identifying symptoms
- Understanding causes
- Considering nutrient deficiencies
- Diagnostic practice exercises

Users will gain skills to identify new and emerging threats to their crops, while also learning about symptom identification and causes of biotic and abiotic plant health problems.

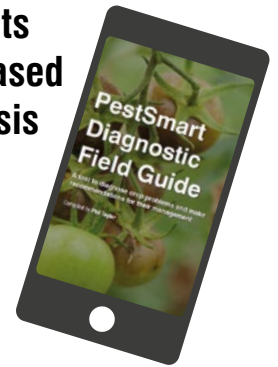
**15 hours of training
across 5 modules**



**Over 400
knowledge checks**



**Supports
field-based
diagnosis**



**1000 images
for symptom
recognition**



**Covers pathogens,
pests and nutrient
deficiencies**



Crop Pest Management

This course helps users to apply the principles of an Integrated Pest Management (IPM) approach to pest and disease management to real world scenarios. It thus supports them to make good, informed decisions without the use of the most hazardous chemicals.

It includes key areas such as:

- Economic considerations
- Bacteria
- Oomycetes
- Fungi
- Insects & Mites
- Viruses

The materials are based on CABI's extensive, practical field experience, case studies, expert tips, photos, practical tools and reference materials.

Our scenario-based training helps users to see the effects of any action taken

Resources

Diagnostic Field Guide

The Diagnostic Field Guide is an eBook designed to support diagnostic decision making by showing the relationships between common symptoms on plants and the various possible causes.

Packed with images and tables of pests and the symptoms they cause, it takes the learning further, by beginning to dissect what is the actual cause of any particular symptom that may be found in the field.



Crop Pest Diagnostic Simulator App

The Diagnostic Simulator is a fun and interactive tool to test student learning on plant diagnosis.

The highly realistic graphics on the app give the learner the opportunity to zoom in on symptoms, turn the plant around, cut the plant open and look inside the plant.

Users are asked to name the symptoms (and are scored on their symptom recognition) and then to make a diagnosis (also scored on the quality of their diagnosis).

This app is available for Android devices only, through the Google Play store.



The CABI Academy

The CABI Academy is designed to help students and professionals translate the latest research and innovations in agriculture and the environment into actionable knowledge and practical applications in the field.

CABI offers a broad range of courses:

- Practical face to face training
- Masters-level Integrated Crop Management courses
- Blended training
- Standalone digital and mobile learning courses and materials

Our online courses include Crop Pest Diagnostics and Management, as well as the first-ever web-based sanitary and phytosanitary measures curriculum (sponsored by USAID). CABI creates its own courses and partners with world-leading universities, research organizations and businesses.

We believe that digital media can complement other traditional forms of training to deliver high quality, more accessible, self-paced and adaptive learning that will help learners acquire and implement skills to make them more productive.

Over time the CABI Academy will build into a comprehensive collection of world class training that promotes climate-smart approaches to crop production, and helps to increase the supply of safer, more nutritious food.

Testimonials

The course is informative and educational

Miss. Micoy Campbell, Agricultural Extension Officer for Northern Clarendon, Rural Agricultural Development Authority (RADA), Jamaica

The course opened my eyes to a lot of different insects, fungi and bacteria that I wouldn't have been able to identify out in the field

Miss. Tamara Coleman, Agricultural Extension Officer, RADA, St. Catherine, Jamaica

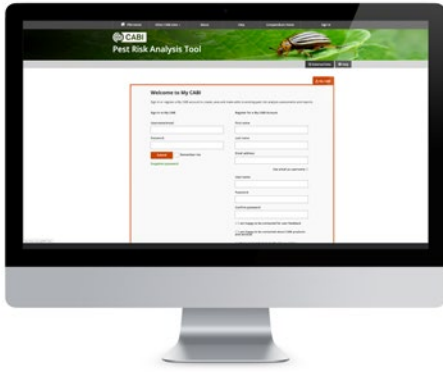
It is an excellent programme

Oreth Martin, Research Assistant, Bodles Research Station, Ministry of Industry, Commerce, Agriculture and Fisheries

www.cabi.org/academy



Related Resources



Pest Risk Analysis (PRA) Tool

Identify, assess and manage the risks of plant pest introductions in countries and ensure safe transportation of plant products with the PRA Tool.

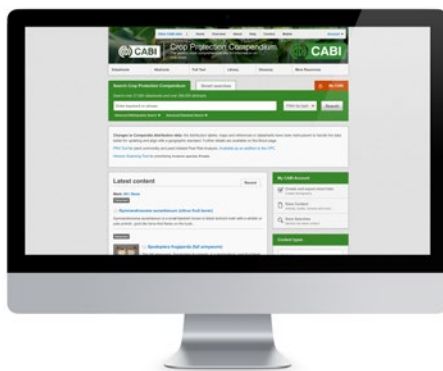
www.cabi.org/PRA-Tool



Horizon Scanning Tool

The Horizon Scanning Tool supports decision making and helps you identify, categorize and prioritize invasive species threats.

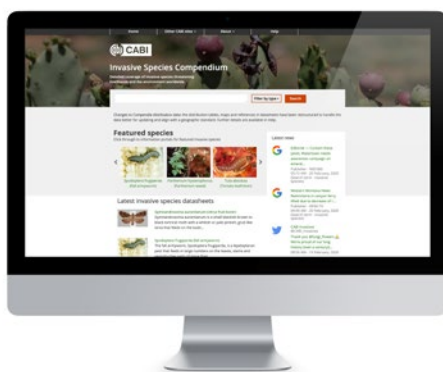
www.cabi.org/HorizonScanningTool



Crop Protection Compendium

Extensive global coverage of pests, diseases, weeds and their natural enemies, the crops that are their hosts, and the countries in which they occur.

www.cabi.org/cpc



Invasive Species Compendium

Detailed coverage of invasive species threatening livelihoods and the environment worldwide.

www.cabi.org/isc



Plantwise Knowledgebank

An open access gateway to actionable plant health information and services – from diagnostic and management advice to maps of pest locations and customized alerts on pest news.

www.plantwise.org/knowledgebank