

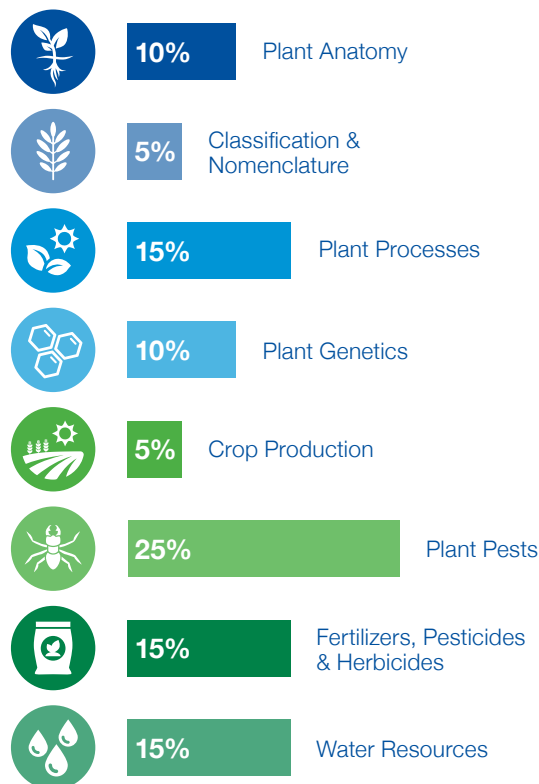
# Plant Science Certification



The BASF Plant Science Certification verifies individuals have acquired the knowledge and skills necessary to excel in a variety of plant, natural and environmental science related fields.

## Certification Exam

The certification exam, tested for on the iCEV platform, consists of 100 questions and assesses knowledge and skills from the following weighted industry standards:



## Meeting the Industry Need

- + Assesses Competencies Based on Weighted Industry-Valued & Industry-Accepted Standards
- + Validates Knowledge & Skills
- + Allows Employers to Identify & Connect with Skilled Candidates
- + Jump-Starts Individuals' Careers

## Industry Standards Breakdown

### Plant Anatomy

Plant Cell Biology  
Plant Structures

### Classification & Nomenclature

Plant Types  
Plant Classification  
Taxonomic Hierarchy  
Cells, Tissues, Organs & Organ Systems

### Plant Processes

Cell Cycle  
Plant Life Cycle  
Plant Growth  
Plant Hormones & Growth Regulations  
Photosynthesis Respiration & Transpiration  
Plant Nutrition

### Plant Genetics

Plant Reproduction  
Plant Biology  
Plant Breeding  
Biotechnology

### Crop Production

U.S. Crop Production

### Plant Pests

Bacterial Diseases  
Fungal Diseases  
Viruses  
Chewing Insects  
Sucking Insects  
Vertebrates  
Weeds

### Fertilizers, Pesticides & Herbicides

Application Methods  
Equipment  
Records & Schedules  
Proper Handling & Storage  
Effects on the Environment  
Environmental Regulations

### Water Resources

Properties of Water  
Sources of Water  
Hydrologic Cycle  
Freshwater Storage  
Water Quality & Pollution  
Wastewater  
Water Rights  
Water & Watershed Conservation

## Example Assessment Questions

1. Which of the following is the cause of widespread phosphorus deficiency problems?
  - A Warm weather
  - B Cold weather
  - C High winds
  - D Too little rain
2. In a 100-pound bag of 8-0-28, how many pounds of phosphate are present?
  - A 8
  - B 4
  - C 0
  - D 28
3. Which of the following are required in relatively large proportion for the growth and development of plants?
  - A Fertilizers
  - B Water
  - C Macronutrients
  - D Micronutrients



## Testing Platform

BASF Science utilizes iCEV as the testing platform for this certification.

iCEV fulfills the following responsibilities:

1. Provides secure testing technology for certification exams
2. Regulates testing environments
3. Works with secondary and post-secondary academic institutions, workforce development associations and the public at large to offer certification options for career advancement
4. Provides certification verification to employers for potential job applicants

## Schedule a Demo & Get a Free Trial

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- The wide range of subjects iCEV brings to life
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- How you'll be supported by the iCEV team

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## About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. Around 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €78.6 billion in 2021. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S. Further information at [www.basf.com](http://www.basf.com)

“At BASF our goal is to build a sustainable future for agriculture through scientific innovation. The plant science certification will provide a foundation to build on for tomorrow's leaders as they seek to meet societal demands for food and fiber.”

**Ginger G. Light, Ph.D.**

Head of Trait Development Operational Planning and Excellence  
BASF