



# احتراف البستنة الحديثة: من الأساسيات إلى التقنيات المتقدمة



**AGILE LEADERS**  
Training Center

06 - 17 Apr 2027

مدرب



## احتراف البستنة الحديثة: من الأساسيات إلى التقنيات المتقدمة

المرجع: 36390\_44144 التاريخ: 06 - 17 Apr 2027 الموقع: مدريد الرسوم: 10000 Euro

### Course Overview:

This course offers a comprehensive exploration of horticulture for professionals looking to enhance their skills. Participants will learn about essential topics like plant cells, reproductive systems, microclimates, and soil water balance, all vital to plant health and development.

The program emphasizes sustainable garden planning, protected cultivation techniques, and biodiversity integration. Participants will also explore advancements in hydroponics, organic horticulture, and climate responsive irrigation, equipping them with the tools to succeed in modern horticulture while promoting productivity and ecological balance.

### Target Audience:

- Horticulturists and agricultural professionals
- Landscape designers and urban planners
- Sustainability officers and environmental consultants
- Gardening enthusiasts aspiring to professional levels
- Educators and researchers in plant sciences

### Targeted Organizational Departments:

- Landscaping and grounds maintenance
- Urban agriculture and community gardening initiatives
- Agricultural research and development teams
- Sustainability and environmental impact divisions
- Facility management overseeing indoor plant care

### Targeted Industries:

- Agriculture and agribusiness
- Landscaping and garden design
- Urban development and planning
- Environmental consultancy
- Hospitality e.g., resorts, golf courses, and theme parks
- Educational institutions horticulture training and research

## Course Offerings:

By the end of this course, participants will be able to:

- Analyze factors influencing plant growth and development
- Implement soil water balance and pH management strategies
- Develop microclimate-responsive gardening techniques
- Integrate organic methods into horticultural practices
- Utilize hydroponics and soilless farming systems
- Plan sustainable gardens incorporating biodiversity principles
- Manage pests, diseases, and weeds effectively
- Apply knowledge of plant classification and naming to enhance design

## Training Methodology:

This course employs a blend of interactive lectures, practical demonstrations, and hands-on projects to ensure deep learning. Participants will engage in group activities, including case studies on climate impact and biodiversity. -Field exercises will enhance skills in plant classification and irrigation techniques. Daily reflection sessions and real time feedback will foster collaborative learning, ensuring participants leave with actionable insights.

## Course Toolbox:

- Comprehensive ebooks on horticultural principles
- Access to online resources and e-libraries for further study
- Case studies highlighting sustainable practices
- Templates for garden planning and design projects

## Course Agenda:

### Day 1: Introduction to Horticulture and Plant Basics

- The nature and scope of horticulture Topic 1:
- Climate and microclimate impact on plant growth Topic 2:
- Plant classification and naming conventions Topic 3:
- External characteristics of plants Topic 4:
- Understanding plant cells and tissues Topic 5:
- Basics of photosynthesis and respiration Topic 6:
- Discuss the foundational importance of horticulture and plant biology Reflection & Review:

## Day 2: Plant Reproduction and Growth

- Plant reproductive systems and pollination techniques Topic 1: •
- Fertilization and seed formation Topic 2: •
- Vegetative propagation methods Topic 3: •
- Factors influencing plant growth and development Topic 4: •
- Seasonal cropping and growth cycles Topic 5: •
- Horticultural plant selection tips Topic 6: •
- Practical applications of plant reproduction methods Reflection & Review: •

## Day 3: Soil Management and Plant Nutrition

- Physical and chemical properties of soil Topic 1: •
- Soil pH and its role in plant health Topic 2: •
- Soil water balance and irrigation techniques Topic 3: •
- Nutrient cycles and plant nutrition essentials Topic 4: •
- Organic matter management in soils Topic 5: •
- Alternatives to traditional soil mediums Topic 6: •
- Discuss soil health's impact on sustainable horticulture Reflection & Review: •

## Day 4: Pest, Disease, and Weed Management

- Identification of horticultural pests and their life cycles Topic 1: •
- Common horticultural diseases and disorders Topic 2: •
- Weed biology and control methods Topic 3: •
- Integrated pest management strategies Topic 4: •
- Plant protection methods and biological control Topic 5: •
- Environmental impact of pest and weed control Topic 6: •
- Discuss balancing pest control with sustainability Reflection & Review: •

## Day 5: Protected Cultivation Techniques

- Types of protected structures greenhouses, tunnels Topic 1: •
- Microclimate management in controlled environments Topic 2: •
- Hydroponics and soilless farming systems Topic 3: •
- Irrigation methods for protected cultivation Topic 4: •
- Role of light, temperature, and humidity control Topic 5: •
- Advanced technologies in protected horticulture Topic 6: •
- Discuss innovations in protected cultivation Reflection & Review: •



## Day 6: Outdoor Cultivation Techniques

- Outdoor vegetable and fruit production Topic 1: •
- Cultural operations and site preparation Topic 2: •
- Successional cropping and intercropping Topic 3: •
- Sustainable garden planning and design Topic 4: •
- Turf and lawn management practices Topic 5: •
- Soil and plant health in outdoor systems Topic 6: •
- Evaluate effective outdoor growing practices Reflection & Review: •

## Day 7: Horticultural Design and Landscaping

- Principles of garden design and landscaping Topic 1: •
- Plant selection for ornamental purposes Topic 2: •
- Designing with trees, shrubs, and groundcovers Topic 3: •
- Role of biodiversity in landscape planning Topic 4: •
- Use of water features and hardscapes Topic 5: •
- Seasonal landscape maintenance Topic 6: •
- Review case studies in garden and landscape design Reflection & Review: •

## Day 8: Advanced Techniques in Horticulture

- Genetic modification and plant breeding innovations Topic 1: •
- Precision agriculture in horticulture Topic 2: •
- Fertigation and advanced nutrient application Topic 3: •
- Climate-responsive plant selection Topic 4: •
- Advanced pruning and grafting techniques Topic 5: •
- Companion planting and ecological balance Topic 6: •
- Discuss advanced tools and techniques in horticulture Reflection & Review: •

## Day 9: Sustainability in Horticulture

- Organic horticulture principles and practices Topic 1: •
- Waste management and composting Topic 2: •
- Carbon footprint reduction in horticultural practices Topic 3: •
- Renewable energy applications in horticulture Topic 4: •
- Role of sustainable irrigation and water conservation Topic 5: •
- Conservation of native plant species Topic 6: •
- Explore how sustainability aligns with horticultural goals Reflection & Review: •

## Day 10: Future Trends and Practical Applications

- Emerging trends in urban horticulture Topic 1: •
- Indoor plant care and vertical gardening Topic 2: •
- Technological innovations in horticulture Topic 3: •
- Eco-friendly plant protection strategies Topic 4: •
- Career opportunities in modern horticulture Topic 5: •
- Final project presentations and feedback Topic 6: •
- Discuss how to integrate learnings into practical applications Reflection & Review: •

## FAQ:

- What specific qualifications or prerequisites are needed for participants before enrolling in the course? •

No prior qualifications are required. However, a basic interest in horticulture or gardening is beneficial.

- How long is each day's session, and is there a total number of hours required for the entire course? •

Each session spans 4-5 hours, totalling approximately 20-25 hours over five days.

- What role does soil pH play in plant health, and how can it be managed effectively? •

Soil pH influences nutrient availability and root health. It can be managed by adding lime to reduce acidity or sulfur to increase it.

## How This Course is Different from Other Horticulture Courses:

This course offers a holistic approach, blending scientific principles with real-world applications. Participants benefit from insights into microclimates, hydroponics, and organic practices while learning to adapt to climate challenges. Emphasis on biodiversity, sustainability, and innovative irrigation methods makes this course unique in addressing modern horticulture demands.



## فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السبراني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



**AGILE LEADERS**  
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## فئات الدورات التدريبية



دورات معتمدة من قبل هيئات دولية



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة  
المالية



دورات مكتب إدارة المشاريع وإدارة المشاريع  
الرشيقية

## مدن التدريب



أمستردام - هولندا



أكرا - غانا



أثينا - اليونان



أبوظبي - الإمارات العربية المتحدة



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



استنبول - تركيا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



الرياض - المملكة العربية السعودية



بانكوك - تايلند



بالي - جمهورية إندونيسيا



بأكو - أذربيجان



باريس - فرنسا

## مدن التدريب



بورنو - البرتغال



برلين - ألمانيا



برشلونة - إسبانيا



براغ - جمهورية التشيك



جنيف - سويسرا



جاكرتا - جمهورية إندونيسيا



تيليسي - جورجيا



بوكيت - تايلاند



زنجبار - تنزانيا



روما - إيطاليا



دبي - الإمارات العربية المتحدة



جوهانسبرغ - جنوب إفريقيا



شهر الشيخ - مصر



سيول - كوريا الجنوبية



سنغافورة - سنغافورة



سان دييغو - الولايات المتحدة الأمريكية

## مدن التدريب



طوكيو - اليابان



طشقند - أوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة الأمريكية



فيينا - النمسا



فرانكفورت - ألمانيا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



لشبونة - البرتغال



لانكاوي - ماليزيا



كاب تاون - جنوب إفريقيا



كوالالمبور - ماليزيا



مسقط - سلطنة عمان



مدريد - إسبانيا



ماربيا - إسبانيا



لندن - المملكة المتحدة

## مدن التدريب



نيروبي - كينيا



ميونخ - ألمانيا



ميلان - إيطاليا



مونترنو - سويسرا



نيس - فرنسا

# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



**AGILE LEADERS**  
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