



PERTECNCA'S

HORTICULTURE TRAINING BROCHURE



Practical training



Post training assistance

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HORTICULTURE TRAINING

The Horticulture Training Course is designed to provide comprehensive knowledge and practical skills in the field of horticulture. This program covers essential topics such as plant cultivation, soil management, pest control, and sustainable gardening practices. Ideal for aspiring horticulturists, gardeners, and landscape professionals, this course will equip you with the expertise needed to thrive in various horticultural careers.

What you'll learn?

- Fundamental principles of horticulture and plant biology
- Techniques for cultivating fruits, vegetables, flowers, and ornamental plants
- Soil science, fertility management, and soil health improvement
- Pest and disease management strategies
- Sustainable and organic gardening practices
- Irrigation systems and water management in horticulture
- Pruning, grafting, and propagation techniques
- Landscape design and maintenance

Course summary:

This course provides a robust foundation in horticulture, focusing on the scientific and practical aspects of plant care. Whether you're interested in starting your own garden, working in landscaping, or pursuing a career in agriculture, this training will give you the tools to succeed.

Key Takeaways:

- In-depth knowledge of plant cultivation and garden management
- Proficiency in soil management and plant health
- Expertise in pest control and sustainable gardening practices
- Skills in landscape design and horticultural technology

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Course syllabus:

Module 1: Introduction to Horticulture

- Overview of horticulture and its significance in agriculture
- Basic plant biology and growth cycles
- Introduction to different horticultural sectors (fruits, vegetables, floriculture, etc.)
- Tools and equipment used in horticulture

Module 2: Soil Science and Plant Nutrition

- Understanding soil composition and types
- Techniques for improving soil health and fertility
- Soil testing and nutrient management
- Organic and inorganic fertilizers

Module 3: Plant Propagation and Nursery Practices

- Seed germination and propagation techniques
- Grafting, budding, and layering methods
- Nursery management practices
- Cultivation of ornamental plants, flowers, and shrubs

Module 4: Vegetable and Fruit Cultivation

- Techniques for growing vegetables and fruits
- Crop rotation and companion planting
- Pest and disease management in edible gardens
- Harvesting and post-harvest handling

Module 5: Landscape Design and Garden Maintenance

- Principles of landscape design and aesthetics
- Planning and designing garden spaces
- Pruning, trimming, and shaping plants
- Maintenance of lawns, flower beds, and shrubs

Module 6: Sustainable and Organic Gardening

- Introduction to sustainable horticulture practices
- Organic gardening methods and natural pest control
- Composting and waste management in gardens
- Xeriscaping and water conservation techniques

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Module 7: Pest and Disease Management

- Identification of common garden pests and diseases
- Integrated pest management (IPM) strategies
- Chemical and biological control methods
- Preventative measures for plant health

Module 8: Irrigation and Water Management

- Designing and installing irrigation systems
- Drip and sprinkler irrigation techniques
- Water management and conservation practices
- Troubleshooting and maintaining irrigation equipment

Module 9: Advanced Horticultural Techniques

- Plant tissue culture and micropropagation
- Hydroponics and aquaponics systems
- Advanced grafting and hybridization methods
- Use of technology in horticulture (drones, sensors, etc.)

Module 10: Practical Training and Real-Time Projects

- Creating a horticultural project from start to finish
- Managing a real-world garden or landscape project
- Implementing sustainable practices in a practical setting
- Hands-on experience with tools, machinery, and horticultural technology

Module 11: Evaluation and Certification

- Final assessment through practical projects and written exams
- Presentation and evaluation of a horticultural project
- Certification of completion with recognition of practical skills

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Practical training:

- Soil Testing and Improvement: Hands-on experience in testing soil fertility and implementing improvement techniques.
- Plant Propagation: Practical training in seed germination, grafting, and cloning plants.
- Garden Planning and Design: Designing and creating functional and aesthetic garden spaces.
- Pest and Disease Control: Identifying and managing common garden pests and diseases.
- Irrigation Setup: Installing and maintaining efficient irrigation systems.
- Sustainable Practices: Implementing organic and eco-friendly gardening methods.

Career scope:

Upon completing the Horticulture training course, graduates can explore career opportunities in various sectors, including:

- Horticulturist
- Landscape Designer
- Nursery Manager
- Urban Gardener
- Agriculture Consultant
- Floriculturist
- Greenhouse Manager
- Horticultural Technician
- Parks and Recreation Manager
- Arborist