Horticulture and Professional Landscaping Fundamentals

17 – 21 January 2027
Doha (Qatar)



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Why This Course

Horticulture and professional landscaping combine plant science, design creativity, technical installation, and long-term maintenance. Successful landscaping projects require a clear understanding of plant growth, soil conditions, site analysis, design principles, irrigation, construction methods, sustainability, and professional project management.

This intensive 1-week Horticulture and Professional Landscaping Training program equips participants with the knowledge and practical skills needed to design, install, and maintain attractive, functional, and sustainable outdoor spaces. The course covers plant biology, soil science, propagation, landscape design, plant selection, hardscape construction, irrigation, lighting, pest management, maintenance planning, estimating, and business practices. Through practical exercises and real-world examples, participants will gain the confidence to plan and deliver professional landscaping projects.

What You'll Learn and Practice

By joining this program, you will:

- Understand basic plant biology, taxonomy, and growth requirements.
- Analyze soil conditions and apply plant nutrition principles.
- Identify environmental factors that affect plant health and performance.
- Apply plant propagation techniques.
- Use landscape design principles to create functional and attractive outdoor spaces.
- Conduct site analysis and assess landscape opportunities and constraints.
- Select suitable plants for different climates, soils, and design purposes.
- Apply proper planting techniques for trees, shrubs, turf, and herbaceous plants.
- Design sustainable landscapes that reduce resource use and support plant health.
- Understand hardscape construction, water features, irrigation, and lighting basics.
- Apply landscape maintenance and integrated pest management techniques.
- Prepare project estimates, bids, and basic business management plans.



The Program Flow

Day 1: Introduction to Horticulture

- Understand plant biology, structure, and growth processes.
- Explore plant taxonomy and classification basics.
- Apply soil science principles to support healthy plant growth.
- Understand plant nutrition and fertility requirements.
- Identify environmental factors affecting plant development.
- Practice plant propagation techniques for landscape use.

Day 2: Landscape Design Fundamentals

- Apply key design principles and landscape design elements.
- Conduct site analysis and assess physical, environmental, and user needs.
- Create outdoor spaces that balance function, beauty, and usability.
- Understand circulation, zoning, focal points, and spatial organization.
- Explore computer-aided design tools for landscape planning.

Day 3: Plant Selection and Installation

- Select appropriate plants for different environments and design goals.
- Apply planting techniques for trees, shrubs, and herbaceous plants.
- Understand turf grass selection, establishment, and care requirements.
- Match plant choices with soil, water, sunlight, and maintenance needs.
- Create sustainable landscapes using suitable plant combinations and efficient practices.

Day 4: Landscape Construction and Irrigation

- Understand hardscape construction for patios, walkways, and retaining walls.
- Explore water feature installation principles.
- Design and install basic irrigation systems.
- Apply water-efficient irrigation practices for landscape sustainability.
- Understand landscape lighting basics for safety, function, and visual impact.

Day 5: Professional Practices and Maintenance

- Apply landscape maintenance techniques for healthy and attractive outdoor spaces.
- Use integrated pest management to control pests responsibly.
- Develop plant care, pruning, fertilization, and maintenance schedules.
- Prepare project estimates and bidding documents.
- Understand basic business management practices for landscaping professionals.



Individual Impact

- Build confidence in horticulture and landscape design fundamentals.
- Strengthen plant selection, installation, and maintenance skills.
- Improve practical understanding of soil, irrigation, construction, and sustainability.
- Gain tools for estimating, bidding, and managing landscaping projects.
- Develop readiness for professional roles in the landscaping industry.

Work Impact

- Improve the quality and sustainability of landscaping projects.
- Support better plant health, site performance, and long-term maintenance outcomes.
- Enhance outdoor spaces through stronger design and technical implementation.
- Reduce project errors through better planning, plant selection, and resource management.
- Improve professional project delivery, budgeting, and client satisfaction.

Training Methodology

This program combines horticulture knowledge with practical landscaping application through:

- Plant biology, soil, and nutrition exercises.
- Site analysis and landscape design workshops.
- Plant selection and installation practice activities.
- Hardscape, irrigation, and lighting demonstrations.
- Maintenance planning and pest management case studies.
- Estimating, bidding, and project management exercises.

Beyond the Course

Upon completion, participants will be able to:

- Create professional landscape design plans.
- Develop plant selection and maintenance schedules.
- Apply proper planting and turf establishment techniques.
- Install and manage small-scale irrigation systems.
- Plan basic hardscape, lighting, and water feature elements.
- Prepare landscape project estimates and bids with greater confidence.

