

# Landscape Horticulturist Level Three

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### **LINE B USE TOOLS EQUIPMENT AND VEHICLES**

#### **B1 Use Hand Tools**

Select and use hand tools .....	B1-1
Perform hand tool maintenance .....	B1-6
Store hand tools .....	B1-6

#### **B2 Use Power Tools**

Select and use power tools .....	B2-1
Perform power tool maintenance.....	B2-6
Store power tools.....	B2-7

#### **B3 Use Measuring Equipment**

Select and use measuring equipment .....	B3-1
Perform maintenance on measuring equipment.....	B3-2
Store measuring equipment.....	B3-6

#### **B4 Use Vehicles and Motorized Equipment, Trailers, and Attachments**

Describe the environmental considerations of selecting and using vehicles, motorized equipment, Attachments and trailers.....	B4-2
Describe the maintenance of equipment attachments .....	B4-3

### **LINE C ORGANIZE WORK**

#### **C1 Perform Site Assessments**

Interpret documentation pertaining to site assessment .....	C1-1
Assess existing site conditions for protection .....	C1-2
Assess landscape site soils .....	C1-5
Identify growing media conditions and properties .....	C1-5
Identify existing and proposed grading and drainage patterns .....	C1-7

**C2 Use Documentation and Reference Material**

Apply current government legislation and company policies .....	C2-1
Use catalogues.....	C2-3
Use text and field books for referencing .....	C2-4

**C3 Maintain Records**

Describe examples of additional records .....	C3-1
Describe types of shipping and receiving information .....	C3-2

**C4 Participate In Job Planning Activities**

Identify and prioritize tasks .....	C4-1
Consider safety requirements .....	C4-4
Locate utilities.....	C4-5
Verify materials.....	C4-5
Verify practices adhere to industry standards.....	C4-6
Identify and schedule cleanup.....	C4-6

**C5 Order Materials**

Identify required materials .....	C5-1
Describe the considerations when ordering materials.....	C5-1
Describe the process for keeping records .....	C5-2
Identify required documents to prevent delays.....	C5-3

**C6 Organize Materials and Equipment**

Receive plants and materials .....	C6-1
Handle substandard plants and materials .....	C6-2

**LINE D PARTICIPATE IN MARKETING AND SALES****D1 Control Inventory**

Describe the process for identifying and counting inventory.....	D1-1
Describe the process for sorting and managing inventory.....	D1-3
Describe the considerations for restocking orders.....	D1-3

**D2 Sell Products and Services**

Describe considerations for client education and advising .....	D3-1
Describe merchandising and marketing of products and services .....	D3-4
Describe considerations for handling payments for products and services.....	D3-8

**D3 Maintain Customer Relations**

Describe methods of maintaining customer relations .....	D2-1
Describe methods of maintaining customer records .....	D2-5
Identify stakeholders for future inquiries.....	D2-8

**LINE F APPLY HORTICULTURAL PRACTICES****F2 Identify Plants and Plant Requirements**

Recognize plants suitable for common tropical, floral and interior landscape situations .....	F2-1
Recognize plants suitable for planting in difficult situations.....	F2-3
Identify and describe 90 woody and non-woody plants .....	F2-5

#### **F4 Prune Plant Materials**

Select and use tools and equipment .....	F4-1
Hazards and safe work practices .....	F4-4
Describe tree pruning considerations .....	F4-4
Recognize factors contributing to tree failure .....	F4-13
Risks associated with trees .....	F4-22
Describe basic plant morphology, anatomy, and physiology with regard to pruning trees .....	F4-31
Perform pruning techniques for young and established trees .....	F4-34
Describe training techniques for young trees .....	F4-41
Describe timing of pruning trees .....	F4-43
Describe compartmentalization .....	F4-47
Organize and dispose of pruned material .....	F4-50

#### **F5 Manage Pests, Diseases and Invasive Species**

Select and use tools and equipment .....	F5-2
Describe conditions that contribute to plant stress .....	F5-2
Describe common pests .....	F5-6
Describe basic arthropod biology .....	F5-7
Describe the characteristics of invertebrate pests .....	F5-20
Describe the biology and characteristics of pathogens .....	F5-31
Describe the damage and management of vertebrate pests (Birds & mammals) .....	F5-45
Describe basic weed biology, common characteristics, and impacts .....	F5-49
Describe established methods for controlling pests (IPM) .....	F5-56
Establishing treatment methods for controlling pests .....	F5-78
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Apply treatment methods .....	F5-99
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##### **G1 Practice Environmental Stewardship**

IPM Implications on Environmental Stewardship .....	G1-1
Identify opportunities for stewardship related to pest and disease management .....	G1-2

##### **G4 Practice Water Stewardship**

Describe practices that promote water stewardship .....	G4-1
Describe irrigation system auditing and scheduling procedures .....	G4-10

#### **LINE I INSTALL HARDSCAPE**

##### **I1 Install Landscape Structures**

Select and use hand and power tools .....	I1-1
Select and use equipment .....	I1-2
Identify products and materials used in feature construction .....	I1-3
Prepare for the installation of landscape structures .....	I1-4
Construct landscape structures .....	I1-7
Apply protective products .....	I1-18
Clean up site .....	I1-18



#### **I4 Install Irrigation Systems**

Select and use hand tools, power tools, and equipment .....	I4-2
Identify hazards and perform safe work practices .....	I4-5
Apply irrigation terminology.....	I4-9
Examine factors that affect irrigation design .....	I4-16
Identify irrigation systems .....	I4-27
Identify irrigation components.....	I4-27
Prepare for installation .....	I4-38
Install irrigation systems.....	I4-39
Program the control system .....	I4-43
Verify installation and operation .....	I4-43
Clean up site .....	I4-43

#### **I5 Install Water Features**

Describe types of water features.....	I5-1
Select and use hand tools, power tools, and equipment .....	I5-3
Identify hazards and perform safe work practices .....	I5-3
Interpret codes, regulations, and documentation.....	I5-4
Describe site preparation to install water features .....	I5-6
Describe procedures to install water features .....	I5-7
Explain maintaining water levels .....	I5-14
Describe the factors for finalizing installation .....	I5-14
Describe site cleanup.....	I5-16

#### **I6 Install Low Voltage Landscape Lighting**

Select and use hand tools, power tools, and equipment .....	I6-2
Describe preparation for installation of low voltage landscape lighting.....	I6-2
Describe components of low voltage landscape lighting .....	I6-7
Describe lighting adjustments .....	I6-9
Describe site cleanup.....	I6-10

### **LINE J INSTALL SOFTSCAPE**

#### **J7 Install Interior Landscape Plants**

Select and use hand tools and equipment .....	J7-1
Identify hazards and safe work practices .....	J7-1
Prepare plant materials .....	J7-3
Protect interior furnishings and surfaces .....	J7-6
Prepare planting areas.....	J7-7
Stage plant material.....	J7-9
Lay out plant materials .....	J7-10
Plant interior landscape plants .....	J7-10
Verify plant installation .....	J7-11
Clean up site .....	J7-12

### **LINE L MAINTAIN HARDCAPE**

#### **L2 Maintain Landscape Structures**

Inspect structures for defects and hazards .....	L2-1
Describe maintenance procedures for landscape structures.....	L2-2

**L5 Maintain Irrigation Systems**

Identify hazards and perform safe work practices.....	L5-2
Identify irrigation systems.....	L5-2
Describe maintenance requirements.....	L5-3
Describe determining system functionality .....	L5-5
Describe problems .....	L5-6
Describe solutions .....	L5-6
Describe the considerations and procedures for determining water quality and availability .....	L5-6
Identify factors that determine irrigation rates and methods .....	L5-7
Describe water stewardship practices .....	L5-7

**L6 Maintain Water Features**

Identify hazards and perform safe work practices.....	L6-1
Interpret codes, regulations, and documentation .....	L6-2
Describe types of water features .....	L6-2
Describe the procedures and products used to maintain water features .....	L6-2
Describe inspection of water features for defects.....	L6-4
Describe the process for charging systems and replacing pumps .....	L6-4
Describe the process for setting and resetting timers .....	L6-5
Describe the process for removing and protecting plants and fish for cleaning and winterization ...	L6-5
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Describe amending water .....	L6-6
Describe the process for winterizing of water features.....	L6-6
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**L8 Practice Snow And Ice Control**

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**L9 Repair Hardscape**

Recognize damage to hardscapes .....	L9-1
Describe minor repairs .....	L9-5

**LINE M MAINTAIN SOFTSCAPE****M2 Maintain Interior Softscape**

Select and use hand tools and equipment .....	M2-1
Identify hazards and describe safe work practices.....	M2-2
Identify interior plants and their needs.....	M2-5
Identify pests and diseases.....	M2-7
Perform visual inspection .....	M2-9
Discuss irrigation and fertilization of plants .....	M2-10
Discuss cultivation and amendment of growing media.....	M2-11
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Discuss seasonal plant replacement.....	M2-13
Discuss protection of interior furnishings and surfaces .....	M2-14
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Discuss managing growth for site conditions .....	M2-15
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Describe repair and adjustment of staking and guying materials .....	M5-13
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