# Skills Framework for Landscape

## Technical Skills and Competencies (TSC) Reference

<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Horticulture</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Plant Health Management and Disease Control</td>
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<tr>
<td>TSC Description</td>
<td>Manage plant health through developing and implementing programmes aimed at meeting nutrition requirements, and remediating pests, diseases and invasive species</td>
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<table>
<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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<tbody>
<tr>
<td></td>
<td>LNS-GNM-1014-1.1</td>
<td>LNS-GNM-2014-1.1</td>
<td>LNS-GNM-3014-1.1</td>
<td>LNS-GNM-4014-1.1</td>
<td>LNS-GNM-5014-1.1</td>
<td>LNS-GNM-6014-1.1</td>
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**Knowledge**

- **Level 1**
  - Symptoms of pest infestations and diseases in plants
  - Visual identification of pest infestations or diseases directly or symptomatically
  - Characteristics of common pests
  - Invasive and noxious plant species and their characteristics
  - Nutrition deficiencies in plants and their remediation
  - Space requirements of plants for optimum health and growth
  - Impact of pests on plant health and growth
  - Regulatory and legislative compliance requirements for pest and disease control
  - Tools and equipment used in removal of infestation
  - Application of chemicals to treat plants for pests, diseases and invasive species
  - Types of fertilisers and other chemical and biological substances used to provide plant nutrition
  - Personal Protective Equipment (PPE)

- **Level 2**
  - Visual identification of pest infestations or diseases directly or symptomatically
  - Characteristics of common pests
  - Invasive and noxious plant species and their characteristics
  - Nutrition deficiencies in plants and their remediation
  - Space requirements of plants for optimum health and growth
  - Impact of pests on plant health and growth
  - Regulatory and legislative compliance requirements for pest and disease control
  - Tools and equipment used in removal of infestation
  - Application of chemicals to treat plants for pests, diseases and invasive species
  - Types of fertilisers and other chemical and biological substances used to provide plant nutrition
  - Personal Protective Equipment (PPE)

- **Level 3**
  - Visual and non-visual identification of pests, infestation or disease directly or symptomatically
  - Characteristics of common pests affecting specific species, occurrence patterns and lifecycle
  - Effect of pests, diseases and invasive species on plant health
  - Space requirements of plants for optimum health and growth
  - Biological and chemical means to meet plant nutritional requirements
  - Application and calibration of tools and equipment for plant health care
  - Types of chemicals and biological agents and their application in controlling plant pests, diseases and invasive species
  - Factors affecting performance of chemical and biological agents in dealing with pests, diseases or invasive species
  - Strategies for pests and disease management and control of invasive species
  - How pests and diseases spread and their impact on plant health, lifespan and aesthetics
  - Plant nutrition management strategies
  - Quarantine policy and procedures for plants
  - Application and calibration of tools and equipment for plant health care

- **Level 4**
  - Best practices in plant health, nutrition and pest management
  - Considerations involved in adopting an integrated approach to plant health management
  - Current and upcoming chemical and non-chemical techniques to manage plant nutrition, pests, diseases and invasive species
  - Procedures involved in plant health management
  - Project management considerations in a horticultural context
  - Integrated approaches for managing plant and landscape health
  - Site constraints and challenges in programme implementation
  - Risk management considerations in a horticultural project context
  - Relevant workplace safety and health (WHS) practices and guidelines

- **Level 5**
  - Best practices in plant health, nutrition and pest management
  - Considerations involved in adopting an integrated approach to plant health management
  - Current and upcoming chemical and non-chemical techniques to manage plant nutrition, pests, diseases and invasive species
  - Procedures involved in plant health management
  - Project management considerations in a horticultural context
  - Integrated approaches for managing plant and landscape health
  - Site constraints and challenges in programme implementation
  - Risk management considerations in a horticultural project context
  - Relevant workplace safety and health (WHS) practices and guidelines

- **Level 6**
  - Best practices in plant health, nutrition and pest management
  - Considerations involved in adopting an integrated approach to plant health management
  - Current and upcoming chemical and non-chemical techniques to manage plant nutrition, pests, diseases and invasive species
  - Procedures involved in plant health management
  - Project management considerations in a horticultural context
  - Integrated approaches for managing plant and landscape health
  - Site constraints and challenges in programme implementation
  - Risk management considerations in a horticultural project context
  - Relevant workplace safety and health (WHS) practices and guidelines
<table>
<thead>
<tr>
<th>Abilities</th>
<th>Technical Skills and Competencies</th>
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<tbody>
<tr>
<td>Recognise the presence of pests on plants from typical signs and symptoms</td>
<td>Personal Protective Equipment (PPE) required for plant health management activities</td>
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<tr>
<td>Recognise symptoms of diseases affecting plants</td>
<td>Relevant workplace safety and health (WSH) practices and guidelines</td>
</tr>
<tr>
<td>Recognise invasive species growing amongst plants</td>
<td>Confirm the presence and extent of pests, diseases or invasive species through review of site reports and site inspection</td>
</tr>
<tr>
<td>Report instances of disease and infestation in a responsive manner</td>
<td>Assess the urgency of the plant health situations based on spread of infestation or invasive species and damage caused to plants</td>
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<tr>
<td>Assist in the application of appropriate treatments as instructed for remediation of infestations or diseases</td>
<td>Develop plans to manage plant health through providing adequate nutrition and managing pests, diseases and invasive species</td>
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<tr>
<td>Weed for manual removal of invasive species</td>
<td>Establish guidelines to determine approaches to managing pests, diseases, nutritional requirements and invasive species</td>
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<td>Perform housekeeping and waste management to maintain appropriate hygiene standards</td>
<td>Develop budgets, supplier selection criteria, broad plans and schedules to guide the planning of the plant health management programme</td>
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<tr>
<td>Adhere to WSH practices in performing plant health management tasks</td>
<td>Establish guidelines to determine approaches to managing pests, diseases, nutritional requirements and invasive species</td>
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</table>

**SKILLS FRAMEWORK FOR LANDSCAPE**

**TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

- Adhere to WSH management activities
- Relevant workplace safety and health (WSH) practices and guidelines
- Personal Protective Equipment (PPE) required for plant health management activities
- Relevant workplace safety and health (WSH) practices and guidelines

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| deployed to control infestation or invasive species on a periodic basis
| • Drive adherence to WSH practices in plant health management and disease control
| • Recommend remedial action to address contingency situations
| • Review the effectiveness of plant health management programmes to implement improvements and enhancements

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