## TSC Category
Environment

## TSC
Ecology in Landscapes

## TSC Description
Adopt principles of ecology in the design, implementation and management of landscapes

### TSC Proficiency Description

<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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</thead>
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<tr>
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<td>LNS-GED-4002-1.1</td>
<td>LNS-GED-5002-1.1</td>
<td>&lt;Insert TSC Code&gt;</td>
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- Incorporate ecological considerations in the design, implementation and management of landscapes
- Drive ecological-based considerations in the design, implementation and management of landscapes

#### Knowledge

- Optimal living conditions of flora and fauna species in the region
- Benefits of ecosystem services
- Interactions between biotic elements in an urban ecosystem and the built environment
- Fundamentals of ecological processes
- Processes and guidelines for ecological impact assessments
- Considerations for ecological sustenance and conservation in the design, implementation and management of landscapes

- Nature of interaction between organisms in ecosystems present in the region
- Optimal living conditions of flora and fauna species
- Relationship between biotic, abiotic and man-made elements of an environment
- Ecological processes present in urban areas and the built environment
- Processes and guidelines for ecological impact assessments
- Ways to mitigate ecological impact of development and human activities

#### Abilities

- Execute site assessments to understand the local ecosystems and ecological processes
- Assess the ecological impact of proposed developments
- Identify flora and fauna species that would be suitable for the proposed designs based on ecological principles
- Incorporate considerations for ecological objectives of the proposed landscapes
- Establish the ecological impact of proposed developments to key stakeholders
- Influence planning and design of landscapes from an ecological conservation perspective
- Identify ecological solutions to mitigate the impact of activities in the development process
<table>
<thead>
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<th>Competency</th>
<th>Description</th>
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<tbody>
<tr>
<td>Promoting plant growth in landscape design, implementation and management</td>
<td>Manage landscape implementation in adherence to ecological sustenance and conservation guidelines. Drive landscape management practices with considerations for sustenance of ecological processes.</td>
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<td>Assess landscape designs from an ecological perspective</td>
<td>Establish landscape management guidelines with considerations for sustenance of ecological processes.</td>
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<td>Promote the usage of flora and fauna species suited to local conditions</td>
<td>Establish landscape implementation guidelines with considerations for conservation of ecological elements and processes.</td>
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<td>to improve sustainability of landscapes</td>
<td>Establish landscape management guidelines with considerations for sustenance of ecological processes.</td>
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