



## **TREEJECTORY+ CURRICULUM SUMMARY**

### Orientation

Informational session on how to navigate the project resources, schedule, and expectations.

### Tree Walk

An informational tree identification walk with ISA-certified arborists.

### Introduction to the Urban Forestry Sector

Introduction to the urban forestry sector, the history of arboriculture, and benefits of joining the Treejectory+ cohort for job placement and skillset building.

### Benefits, Tree Sourcing & Monitoring

Gain an understanding of the benefits of trees, how to properly source and select trees, and how to properly diagnose a tree's health. This module will also provide insight into several different career pathways in this field.

### Native Habitat Restoration I

Participants will gain essential insights into the distinctive characteristics of urban canyons, exploring the structure and function of coastal sage scrub and riparian plant communities. This session will cover key native plant species, the wildlife they sustain, and the challenges presented by invasive species.

### Native Tree & Environmental Justice

Focuses on the different use of native species and cultural significance of trees.

### Site Analysis, Planting, Propagation, & Pruning

This module includes a site visit where you will learn how to accurately identify and select trees at the nursery while exploring various career pathways within the nursery industry.

### Native Habitat Restoration II

Gain a comprehensive understanding of habitat restoration within local ecosystems alongside San Diego Canyonlands. Explore canyons traversing from the urban streets, down slopes of coastal sage scrub, and into the riparian canyon floor. Develop a deeper appreciation for our unique Wildland Urban Interface (WUI).

### Inventory & GIS in Urban Forestry

Learn more about how GIS is used in this field and which state-of-the-art technology will be helping cities map and track tree planting projects.



### Drones & Photogrammetry in Urban Forestry

Explore the latest technologies in urban forestry and conservation through the lens of drone technology.

### Arborist & Tree Crew Site Visit

Site-visit to the WCA headquarters. Tour the work-yard, view a presentation on the technology implemented by WCA, and experience the day-to-day tasks carried out by WCA crew members.

### Tree Inventory & Planning

Explore a broader discussion about GIS databases like Tree Plotter, ArcGIS, and iTree.

### Drone Safety & Demonstration

Introduction to drone operations. Understanding the responsibility and requirements for flying a drone. Summary of FAA drone regulations.

### Evapotranspiration, Shading and Urban Heat Islands

Explore the correlation between heat and trees, as well as the methodology employed to gain data-driven insights into this relationship. Discuss how the urban heat island effect and how trees are used as a natural solution for mitigating extreme temperatures

### Introduction to Tree Corps & Soft Skills

This module includes soft skills and professional development with a discussion about the Tree San Diego report Urban Tree Planting Challenges in San Diego County.

### Q&A with Sector Expert

Conversations with leaders and hiring managers in the sector.

### Wood Reused, Reclaimed, and Recycled

Explore the uses of trees at the end of their lifecycle. Includes the uses of street trees and wood recycling methods, highlights of local vendors using reclaimed wood, and a tour of their facilities.

### Tree Planting Activities

Receive a deeper understanding of tree planting and how to properly maintain a tree once it is planted.

### Free Admission to Conference/Event

This final “module” serves as an opportunity to allow candidates access to a sector-related event or conference. By attending an urban forestry event, candidates will be able to network with and learn from subject matter experts in this field.