

CLASS SPECIFICATION
Botanic Technician II

FLSA Status: Covered
Union Representation: Professional and Technical Employees (PTE)

300001383 – Generalist (GEN)

GENERAL PURPOSE

Under general supervision, directs and performs technical support assignments applying botanical, horticultural and natural resource knowledge in implementing botanic, natural areas trail, and/or horticultural projects; assists with planning projects and with reviewing project success after implementation; plans, organizes, trains and directs seasonal employees, volunteers and nonprofit organizations in carrying out assigned project activities; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Botanic Technician II is the advanced technical support/assistance level in the Botanic Technician series. Incumbents implement planned activities; provide on-site instruction, direction and guidance; assist with the development of botanic, natural areas, soft surface trail, and/or horticultural project plans and coordinate with volunteer groups as needed.

Botanic Technician II is distinguished from the Botanic Technician I, in that the incumbents in the latter class work alongside of seasonal staff and volunteers and support their work, while the former class directs work teams comprised of seasonal employees, volunteers and nonprofit organizations and ensures availability of project materials and resources and reviews and reports on results.

Botanic Technician II is distinguished from the Botanic Specialist I, in that incumbents in the latter class plan and develop broader, more complex projects, develop partnerships with community and nonprofit organizations, develop communications and promotional materials, and secure funding.

ESSENTIAL DUTIES AND RESPONSIBILITIES

Any one position in this class may not perform all the duties listed below, nor do the listed examples of duties include all similar and related duties that may be assigned to this class.

1. Performs trail project work as assigned; performs soft surface trail construction and maintenance; analyses trail conditions; grades, and reroutes soft surface trails as directed; utilizes landscaping hand tools and power tools; maintains bridges, crib walls, drainage features, rock walls, turnpikes and other infrastructure; transports supplies and equipment to remote locations.
2. Performs natural resource restoration work as assigned; removes non-native vegetation with hand and power landscaping equipment, plants native plants in natural area locations leads trouble-shooting issues in the field.
3. Implements assigned activities from the project plan; assesses requirements and arranges/ensures

availability of materials, tools, equipment and resources for assigned work, including getting bids and procuring materials.

4. Organizes, trains, and leads seasonal staff, volunteer, youth and community nonprofit work parties and projects; conducts safety demonstrations and presents information to seasonal staff, volunteers and community groups; determines and secures supplies for the group; monitors the health and well being of crew members during the work day and responds to any emergency situations as needed.
5. Advertises/posts requests for volunteers; serves as primary volunteer contact assigned projects; follows up to ensure that sufficient people are signed up to complete the project; recommends rescheduling/cancellation as needed.
6. Reviews completed project work for quality; reports project results to management; reports volunteer hours and other requested information to community organizations.
7. Assists with the design and planning of basic habitat enhancement projects; coordinates and plans basic project components as assigned; plans and implements activities within assigned project plan.
8. Conducts trails surveys including slope, length, condition and accessibility; records field conditions; gathers and compiles information.
9. May perform routine maintenance activities on small park facilities and furnishings.
10. May remove illegally dumped debris and transient camps.
11. May assist with general natural resource projects, curation of botanic collections, or with landscape maintenance or construction.
12. May respond to emergency situations regarding trails as access points to natural areas, including tree removal and emergency trail stabilization.

MINIMUM QUALIFICATIONS

Knowledge of:

1. Techniques and practices of soft surface trail assessment, construction, repair and maintenance.
2. Principles and practices of natural area restoration work, including erosion prevention.
3. Common horticultural principles and practices.
4. Selection and planting of native plants.
5. Basic trail construction, masonry and carpentry practices.
6. Leadership of and communication with part-time staff and volunteers.
7. Non-native plant removal.
8. Use of pesticides.
9. Basic park and facilities maintenance.
10. Applicable laws, rules and ordinances related to park use.
11. Native and non-native plant identification.

12. OSHA safety standards relating to position.

Ability to:

1. Read and interpret trail construction plans.
2. Operate specialty equipment such as chainsaws, clinometer, and power wheelbarrows.
3. Operate hand tools, small power equipment, and work vehicles.
4. Operate utility vehicles, small trucks, vans, tractors and other vehicles in natural areas, parks and roadways.
5. Plan, organize, and implement natural area maintenance and assessment activities.
6. Effectively navigate and work in remote areas, including off trail work in areas of uneven ground and extreme weather.
7. Assess project resource requirements.
8. Operate a personal computer and use mapping, word processing, spreadsheet and database software.
9. Communicate effectively, verbally, written and via e-mail, with the general public, co-workers and volunteers.
10. Provide onsite direction, instruction and guidance to paid and volunteer workers at a wide variety of skill levels.
11. Work constructively in a team environment.
12. Keep accurate and detailed records and information.

Training and Experience:

A typical way of obtaining the knowledge, skills and abilities outlined above is graduation from high school, trade school or vocational school, or G.E.D. equivalent, supplemented by courses in natural ecosystems, natural resource management, vegetation management, botany, horticulture, natural resource science and two years of natural area restoration experience and/or trail construction and maintenance, or an equivalent combination of training and experience.

Licenses; Certificates; Special Requirements:

A valid state driver's license may be required for certain assignments.

Ability to obtain a public pesticide applicator's license within 6 months of appointment may be required for certain assignments.

Ability to obtain and maintain First Aid and CPR certification; Wilderness First Aid certification preferred.

Chainsaw certification preferred for certain assignments.

PHYSICAL AND MENTAL DEMANDS

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Reasonable accommodation will be evaluated on an individual basis and depends, in part, on the specific requirements for the job, the limitations related to disability and the ability of the hiring bureau to accommodate the limitation.

SPECIALTIES

Position in this class are assigned to one of the following specialties: Generalist (GEN) or Green Infrastructure (GI).

Class History:

Adopted: 10/7/2009

Revised: 9/3/14 Updated duties, knowledge and requirements.

July 2017 – Updated union name from COPPEA to PTE

Revised: 07-30-19 Added Green Infrastructure specialty

30003379 – Green Infrastructure Specialty

GENERAL PURPOSE

Under general supervision, directs and performs technical support assignments applying botanical, horticultural, and natural resource knowledge in implementing stormwater management facilities and maintenance activities; assists with planning green infrastructure projects and with reviewing project success after implementation; plans, organizes, trains and leads other green infrastructure crew members, seasonal employees, contractors, and volunteers in carrying out assigned activities; and performs related duties as assigned.

ESSENTIAL DUTIES AND RESPONSIBILITIES

1. Provides project planning and onsite leadership and direction to other maintenance workers including Botanic Technician I, contractors, seasonal employees, and volunteers, ensuring quality of work and worker safety.
2. Performs green infrastructure work as assigned; performs maintenance of vegetated stormwater facilities and urban natural areas; maintains soil surface grading per design plan; maintains and determines need for repair of structural components of green infrastructure including walls, check dams, inlets and outlet structures; utilizes landscaping hand tools and power tools.
3. Interprets and implements construction design plans and specifications for green infrastructure projects; ensures compliance with applicable permits and city codes for construction and materials specified in design plans.
4. Conducts condition inspections of green infrastructure facility components and vegetation; recommends maintenance and works tasks to achieve optimal facility operation and function; recommends solutions for challenges related to aging green infrastructure.
5. Conducts monitoring and data collection for projects as assigned; keeps accurate and detailed records using an asset management framework and enters data in asset management database or tracking spreadsheets
6. Recommends plant species specific to green infrastructure projects for design plans and repair of green infrastructure vegetation; plants, irrigates, and maintains vegetation in vegetated stormwater facilities and natural areas; removes and controls weeds and nuisance plants.
7. Resolves complaints from the public or organizations regarding green infrastructure facilities and/or components.
8. Assists with planning and design for new and rehabilitated projects; determines need for rehabilitation or reconstruction of projects; implements repair work as assigned.
9. May respond to emergencies related to mitigation of flooding or spills involving green infrastructure components or related components of the stormwater infrastructure facility.
10. May remove illegally dumped debris, sharps, and other biohazards.
11. Performs related duties as assigned.

MINIMUM QUALIFICATIONS

Knowledge of:

1. Principles, methods, and practices of urban stormwater management, green infrastructure, bioretention, and biofiltration.
2. Practices, methods, and techniques of vegetated stormwater facility design, installation, establishment, and maintenance.
3. Common horticultural principles and practices, including planting, irrigation, and plant care.
4. Native plants and other species planted in vegetated stormwater facilities and natural areas; non-native plants and other weeds commonly found in vegetated stormwater facilities, natural areas, and adjacent areas; native soils and engineered soil media specified for use in vegetated stormwater facilities.
5. Practices, methods, and techniques of integrated pest management and weed control.
6. Water quality issues associated with stormwater and surface water including urban rivers and streams.
7. Safety concerns and OSHA regulations associated with working in the right-of-way and other urban locations.

Ability to:

1. Inspect stormwater management facilities, including vegetation, soils, and structural components, and determine whether they are functioning per design intent and established level of service.
2. Interpret and execute work orders and analyze and correct problems relating to operations and maintenance of stormwater management facilities, including selecting and maintaining vegetation specific to unique site conditions and correcting erosion and sedimentation issues, blocked inlets, and clogged pipes.
3. Provide onsite direction, instruction and guidance to maintenance crew members and other co-workers.
4. Read and interpret construction plan sets for various types of stormwater management facilities and ecological restoration projects, including structural components and planting plans.
5. Keep accurate and detailed records and information and track operations and maintenance of stormwater management facilities in an asset management database.
6. Operate hand tools, small power equipment, irrigation pumps, backpack sprayers, and work vehicles (with and without trailers).
7. Work safely in roadways with high traffic volumes and in other urban environments with specific hazards, including sharps and biohazards.
8. Operate a personal computer and use mapping, word processing, spreadsheet, and database software.
9. Communicate effectively, verbally, written and via e-mail, with the general public and co-workers.
10. Work constructively in a team environment.

Licenses; Certificates; Special Requirements:

A valid state driver's license may be required for certain assignments.

Ability to obtain a public pesticide applicator's license within 6 months of appointment may be required for certain assignments.

Ability to obtain and maintain First Aid and CPR certification; Wilderness First Aid certification preferred.

Chainsaw certification preferred for certain assignments.

Ability to obtain roadside worker protection and traffic control certifications may be required for certain assignments.

PHYSICAL AND MENTAL DEMANDS

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Reasonable accommodation will be evaluated on an individual basis and depends, in part, on the specific requirements for the job, the limitations related to disability and the ability of the hiring bureau to accommodate the limitation.