

Wastewater Collection Worker
(Class Code 4110)

Competency List

Vehicle Operation & Maintenance

1. Skill in driving a motor vehicle requiring a Class B license.
2. Knowledge of the Motor Vehicle Code and Departmental rules for operation of vehicles.
3. Ability to inspect vehicle for safety prior to taking vehicle out of the yard, by checking fuel level, brake operation, and lights sufficient to complete safety check form.
4. Knowledge of special maintenance procedures required for various vehicles and equipment such as lubricating zerk fittings, and cleaning holding tanks of catch basin cleaners.

Maintenance/ Tools & Equipment

5. Ability to safely use and care for hand tools according to Department Standard Operational Procedures.
6. Ability to safely use and care for portable power tools according to Department Standard Operational Procedures.
7. Ability to safely use and care for compressors and pneumatic tools according to Department Standard Operational Procedures.
8. Ability to operate various pumps and diaphragms (e.g., bladder, centrifugal and submersible pumps) to bypass/divert waste water flow.
9. Knowledge of Standard Operating Procedures for rodding machine, and setting the correct reel and rod pressures.
10. Knowledge of Standard Operating Procedures for hydrocleaner including the use of various nozzles and/or heads, draining tanks, and when to use sleds.
11. Ability to operate fire hydrants including attaching auxiliary gate valve and hose sufficient to get water when needed.

12. Ability to use powered winches sufficient to perform actions such as braking and evenly rewinding cable, rod, and hose.

Construction

13. Knowledge of requirements for placing ladders in trenches including depth of trenches.
14. Ability to combine information from plans, site observations, and careful physical dimension review to complete various types of jobs such as sewer repairs, settings fences, or rebuilding catch basins in accordance with plans.
15. Knowledge of requirements for thickness and dimensions of plates used to cover excavations in streets to prevent shifting of plates and for public safety.
16. Ability to read and interpret construction plans and standard plans sufficient to plan out jobs, identify sequence of activities, and to select locations for material and spoil storage areas.

Inspection

17. Ability to detect defects, such as cracks, chips, or breaks, in concrete and breaks, dents, or distortion, of metal parts in maintenance holes or other sewer and storm drain structures, sufficient to identify those requiring immediate repair.
18. Ability to detect problems in sewers such as high level of flow, indications of past high levels, grease encrustations, or foreign objects sufficient to correct them and/or recommend that a cleaning or construction crew be sent to the site.
19. Ability to detect problems in storm drains such as accumulation of brush, mud, dirt, or other material in catch basins sufficient to correct them and/or to recommend that a cleaning or construction crew be sent to the site.

Safety

20. Ability to identify signs of wear or damage to equipment such as broken strands on winch cables, bubbles in hydraulic hoses, and worn brake linings or burned brake drums on winches or power reels sufficient to determine whether the equipment is safe or unsafe to use.
21. Knowledge of OSHA regulations and Department safety principles regarding clothing, personal safety equipment and other safety gear sufficient to perform work safely.

22. Knowledge of safety equipment, emergency equipment, and first aid supplies such as cones, prongs, and first aid kits to be carried on trucks going to fieldwork sites.
23. Knowledge of personal safety equipment required for field crews on various jobs sufficient to check that it is present before the crew leaves the yard.
24. Knowledge of specialized safety equipment to be used for various jobs such as using blowers for ventilation in confined spaces, ear protection and safety whips when using compressors, and ear protection and hard hats when using hydrocleaner or catch basin cleaners.
25. Knowledge of proper procedures for safe work in confined spaces including ventilation requirements, always having an observer above, always using safety harness, always having Air Line Breathing Apparatus ready for use, and lowering tools and materials with ropes.
26. Knowledge of types of materials, which require a Materials Safety Data Sheet to be carried on the truck such as, herbicides, insecticides, spray paints, or epoxy cement.
27. Knowledge of work area traffic control requirements for safe work in surface streets, state highways and freeways (Work Area Traffic Control Handbook).
28. Knowledge of permits required for work on state highways and freeways and of special traffic control requirements such as using 28" cones and arrow boards for channeling traffic.
29. Knowledge of how to set up arrow board delineators including towing it into position, starting gas or diesel generator, checking the direction and sequence of arrows, and turning the switch on.
30. Knowledge of procedures for contacting emergency medical personnel to remote work site areas without radio or cell phone contact (i.e. asking a nearby resident to call or permit phone use or leaving someone with the injured worker and walking or driving to the nearest phone).

Communication

31. Ability to communicate orally sufficient to discuss work assignments, job requirements, and other information with supervisors and co-workers.
32. Ability to provide clear orders and/or instructions sufficient to supervise work crews or to direct traffic.

33. Ability to read and understand written material such as supervisors' instructions, reports of problems, or letters and memos sufficient to apply the information to specific situations.
34. Ability to interact with others with patience and tact when discussing problems with City residents, co-workers, and other persons who may be emotional and/or hostile.
35. Knowledge of hand signals for positioning equipment and/or booms sufficient for purposes such as positioning boom of catch basin cleaner or for positioning rodding truck in relation to a maintenance hole.
36. Ability to provide direction and positive or negative feedback, demonstrating approachability, and instilling confidence in order to foster good working relationships.

General

37. Ability to lift and handle material and equipment weighing up to 94 lbs.
38. Ability to work in confined spaces such as maintenance holes or catch basins.
39. Mechanical aptitude sufficient to work safely with or near equipment with moving parts.
40. Physical agility sufficient to climb hills while carrying objects such as portable generators, breathing equipment, tools, and materials.
41. Eye-hand coordination sufficient to perform typical work duties such as guiding rod or hydrocleaner hose into sewer line, placing it accurately, without damaging the rod or line or the collection system structures.
42. Basic computer literacy sufficient to use computer laptops and specialized software (FAST) to track work history, fill out job orders and perform CCTV inspections.
43. Knowledge of City and departmental rules and policies and EEO practices.
44. Ability to read and comprehend street maps and other special maps and/or plans such as wye maps and substructure maps sufficient to locate work routes or work sites and estimate time required for travel.