

	Title: Engineering Worker	<i>Date:</i> November 2016 <i>Revised November 2021</i>
	<i>Department:</i> Engineering, Parks and Environment (Engineering Operations Division)	
	<i>Classification:</i> Outside	

Nature and Scope of Work

This is maintenance and construction work of some complexity and variety involving the performance of semi-skilled tasks entailing the exercise of one or more acquired skills. The work requires considerable effort and agility in the performance of a variety of manual duties. This may involve hazardous working conditions, specialized skills and limited supervisory responsibility. An employee in this classification exercises considerable independence of judgment and action, particularly in specialized tasks. The work is subject to inspection by a supervisor for the attainment of desired objectives.

Illustrative Examples of Work

1. Sewer maintenance and installation, such as installing service connections, laying pipe, erecting timbers, installing risers, and building catch basins and manholes. Assists in and may supervise the work of subordinates engaged in such tasks.
2. Waterworks installations, repairs and maintenance tasks such as building valve chambers, tapping water mains for new and replacement service connections, locating and repairing water main and service leaks, and installing water meters. Assists in and may supervise the work of subordinates engaged in such tasks.
3. Road maintenance including operation of motorized equipment such as compacting machines as well as manual tools. Assists in and supervises the work of a group of subordinates, Equipment Operators and Truck Drivers engaged in road maintenance tasks.
4. Builds forms, mixes and places concrete and performs routine concrete maintenance tasks including sidewalks, curbs, gutters, retaining walls and similar structures.
5. Forestry tasks including falling, bucking and pruning trees using hand tools and power equipment such as chainsaws and hedge trimmers.
6. Fence repair, construction and related work.
7. Acts as Padman for Equipment Operators.
8. Litter pickup including emptying litter receptacles, swamping on garbage trucks and unloading of garbage trucks at disposal area.
9. Sweeps and cleans streets, sidewalks, boulevards and gutters using shovels, rakes, brooms or power equipment.

10. Site safety and cleanup including installing warning lamps, barricading ditches and excavations and placing warning signs around work projects. Acts as signalman for truck drivers and directs traffic adjacent to work projects.
11. Cleans up around yards and buildings, assists in the loading and unloading of trucks, checks hand tools and equipment and performs similar tasks.
12. Loads, piles and sorts pipe and lumber, shovels sand and gravel and performs simple grading tasks.
13. Physical tasks such as lifting and carrying heavy objects; climbing and chopping.
14. Driving light-duty and heavy-duty passenger vehicles including towing trailers and using snow and ice control equipment.
15. Operates a variety of gas, electric and pneumatic power tools such as jackhammers, plate tampers, cutoff saws.
16. Painting, sanding and prep work.
17. Performs related work as required.

Required Knowledge, Abilities and Skills

1. Considerable knowledge of the principles, practices, methods and material used in general construction and maintenance work.
2. Ability to perform semi-skilled and unskilled tasks in construction and maintenance functions.
3. Good working knowledge of the functions of the Department.
4. Ability to understand and effectively carry out verbal and written instructions with a minimum of supervision.
5. Ability to perform a variety of skilled and semi-skilled manual tasks requiring the use of considerable independent judgment in construction and maintenance operations
6. Ability to lay out, supervise and check the work of several subordinates.
7. Ability to keep simple records related to the work performed.
8. Considerable skill in the use of a variety of hand tools and equipment common to general construction and maintenance work.
9. Sufficient physical strength, stamina and coordination to permit performance of heavy manual work outdoors in all weather.
10. Ability to carry out extended periods of physical activity.
11. Ability to work unsupervised.

Desirable Training and Experience

1. Grade 12
2. Experience in general construction and maintenance work
3. Supervisory experience
4. Class 3 Driver's Licence for the Province of British Columbia.
5. Equivalent combination of training and experience.

Required Licenses, Certifications and Registrations

1. Driver's Licence for the Province of British Columbia.