

Nothing in this job description restricts management's right to assign or reassign duties and responsibilities to this job at any time.

DUTIES Serves as general equipment operator in the Roadway Section of the Structures & Grounds Division, Engineering and Maintenance Department at Ronald Reagan Washington National Airport (DCA), Metropolitan Washington Airports Authority (Airports Authority). Sweeps airfield runways, taxiways, and ramps, street side roadways, and employees' parking lots using equipment such as vacuum, magnetic and hydraulic broom sweepers. Repairs/resurfaces roadways, parking lots, and sidewalks. Assists the maintenance shops by operating equipment to excavate ditches. Performs related roadways and grounds duties.

Operates tandem sweeper with another operator in sweeping the runways, taxiways, and ramp areas of spalled concrete, asphalt chips, and debris that might damage aircraft, using care in maneuvering alongside and between aircraft and airfield lights. Maintains awareness of hydraulic pressure gauge and takes appropriate action when readings are abnormally high (e.g., may need to adjust height of broom and shield if they are too close to the pavement). Uses snow brooms during snow removal, in addition to scrubbing and de-rubberizing on the runways. Uses magnetic tow-behind sweeper attachment on roadways and taxiways to remove metal objects.

Operates tandem sweeper near parked vehicles, through tight lanes of parking lots, and sometimes against the flow of traffic in sweeping parking lots. Operates smaller sweeper and scrubber to clean taxi holding area and parking structures.

Performs runway and taxiway inspections for airfield-related issues when working on or near movement area and reports deficiencies to supervisor or Airport Operations, as appropriate.

Performs inspections of the airport landside roadways to ensure road surfaces are free and clear of any issues that would impede the flow of traffic, including spalled areas. Clears roadway or performs emergency repairs with team when necessary, which may involve setting up lane closures or making changes to established traffic patterns. Ensures that proper signage, acceptable warning distances, speeds, proper jersey barrier placement, and crash barrel placement are in place. Properly implements the use of highway speed attenuator, variable message boards, and proper wording and arrow board placement when effecting changes to traffic patterns.

Frequently makes precise adjustments on computer, electric over hydraulic, and electronically-controlled equipment, or installs and/or removes accessories on a variety of equipment, such as blower heads, sanders, snow baskets, excavation buckets, bush hogs, boom arm mowers, highway material spreaders.

Operates farm tractors with different mower attachments on the airfield and street-side of the airport, including the 27-foot boom mower on 55-degree slopes of riverbank, across ditches, and near swales. Operates slope mower on grassy slopes up to 40 degrees.

Uses front-end loader to load dump trucks. Operates dump truck to haul and dump soil, mulch, asphalt, sand, etc. May operate grader or tractor with angle dozer blade to clear brush and rocks

or push earth in landfill operations. Grades areas for seeding and soil erosion control, makes postholes for fences, and uses mini backhoe to dig holes for transplanting shrubbery.

Performs operational checks on equipment (e.g., checks oil, water, and tire air pressure) and reports equipment malfunctions on the shift to the supervisor.

Assists in the repairs and/or resurfacing of roadways, sidewalks, and other concrete and asphalt ground surfaces. Uses jackhammer or backhoe to remove damaged asphalt or pavement. Lays hot and cold asphalt mix to required grade and thickness; seals joints with hot tar. Overlays roads and parking lot areas (e.g., ensures that subsurface is prepared to proper grade and depth; uses asphalt spreader to cover subsurface; levels off and seals asphalt).

Provides on-the-job training to lower-grade employees in the operation of grounds equipment.

May use tools and equipment such as shovels, hoes, rakes, axes, picks, edgers, jackhammers, drills, sanders, and bush saws.

Occasionally performs duties such as moving furniture and installing snow stakes as guides for snow removal and trimming trees. Assists pavement and gardening crews as required (e.g., breaks up compacted stone landfill and rolls asphalt).

Communicates and interacts effectively with internal and external business contacts, including, but not limited to, other members of the unit/team, other Airports Authority employees (such as supervisors, professionals, and support staff), tenants, airport users, and the general public.

Uses a computer for various office applications (email, word processing, etc.), ERP (enterprise procurement-logistics system) applications, inventory management, and the current enterprise asset management and computerized maintenance management system (CMMS) to record work progress and document quality of finished work.

Performs other duties as assigned.

Critical features of this job are described under the headings below. They may be subject to change through reasonable accommodation or otherwise.

MINIMUM QUALIFICATIONS (MQs)

To be rated qualified for this job, an applicant must meet all of the MQs listed below at the time of vacancy announcement closure.

1. A high school diploma or a Certificate of General Educational Development (GED), or an equivalent combination of education, experience, and training.
2. Three years of progressively responsible experience (post high school) in the operation of general equipment. Two of these years should include the operation of motorized construction equipment that includes substantive work in most of the DUTIES in this job

description.

3. Ability to obtain a Commercial Driver's License (CDL) Class B, within 90 days of hire, promotion, or placement into the position.

PREFERRED QUALIFICATIONS

The qualifications listed below (if any) are preferred and may be considered in selection process, but they are not required to be rated qualified for this job.

1. Possession of a Class B CDL.

KNOWLEDGE, SKILLS, ABILITIES AND OTHER FACTORS (KSAOs)

The following KSAOs are required for successful performance of this job and are a basis for rating and ranking applicants who are found to meet the MQs. *Local, Federal, airport industry or Airports Authority-specific bodies of knowledge listed below may typically be acquired on the job; ability to rapidly acquire them is required at the time of vacancy announcement closure.*

1. Skill in operating equipment such as sweepers and snow blast/plow with hydraulic systems, two or more engines, and multiple controls to perform activities such as sweeping runways, taxiways, and ramps close to parked aircraft and field lights and sweeping narrow lanes of parking lots and against the flow of traffic on roadway
2. Skill at the journey level as a general equipment operator exhibiting:
 - Skill in using manual, hydraulic, and electronic control systems to adjust and calibrate equipment and/or attachments to dig holes, grade slopes, control sprays, etc., adjust tracks and attachments; etc.
 - Skill in making multiple connections of attachments and operating levers, gears, and pedals on snow plows, graders, couplers, grapplers, augers, thumbs, de-icing booms, etc. and in interpreting technical manuals to do so, as necessary.
 - Skill in using hand tools such as shovels, picks, spades, and rakes for grounds and road maintenance; power equipment such as a jackhammer to break up pavement; and measuring tools such as tape measure, measuring wheel, and stick ruler to place engineering grade stakes.
3. Skill in oral communication to understand verbal information (including instructions, descriptions, and ideas) and to express such information verbally so that others will understand. Examples include exchanging routine and non-routine operational and procedural information with co-workers, workers from other areas, and, as necessary, the public; and in communicating with the control tower when working on or adjacent to the airfield.

4. Knowledge of Federal and state regulations regarding load capacities and loader operations/regulations for equipment such as forklifts, dump trucks, and trailers to haul equipment, asphalt, and stone; or install fall protection equipment.
5. Knowledge of the airport layout including Air Operations Area (AOA) traffic rules and regulations to operate equipment safely on and around active runways and taxiways.
6. Skill in problem solving to select, organize, and logically process relevant information (verbal, numerical, or abstract) to solve a problem. This includes the ability to recognize subtle aspects of problems, identify relevant information, and make balanced recommendations and decisions. Examples include determining specific equipment needed to perform an assigned task and the items needed to effect emergency repairs to spalled areas of roadways, parking lots, or the airfield.
7. Skill in using a computer and modern office suite software (such as MS Office) to word process (light word processing only); specialized software (such as supply and procurement modules of Oracle used by the Airports Authority); and to enter/retrieve data regarding work orders.
8. Interpersonal skills to interact with contacts in a businesslike, customer service-oriented manner.
9. Skill in written communication to understand written information (including instructions, descriptions, and ideas) and in written communication to express such information in writing so that others will understand. Examples include reading technical-operational materials (such as technical manuals, schedules, and work orders), and administrative-programmatic materials (such as Airports Authority supply procedures), and writing briefly about similar types of matters, such as closing out work orders and documenting runway closures or equipment failures.
10. Ability to work safely and knowledge of the safety rules and procedures needed to do so.

RESPONSIBILITY Responsible for operating a variety of motorized equipment at full performance (journey) level in sweeping, construction, maintenance, and snow removal activities. Work assists in keeping the airport's runways, taxiways, and ramp areas free from debris and in operational condition.

Reports to the Grounds Maintenance Supervisor (Supervisor) who provides oral or written assignments and instructions concerning the location of the job and work to be done. The incumbent may work independently, in tandem, or in a team with other General Equipment Operators or with other trades (electricians, plumbers, carpenters, and mechanics) to complete an assignment. Supervisor's oversight focuses on work prioritization, compatibility with other jobs scheduled, and emergencies, ensuring it is performed in a timely manner, in accordance with any instructions, and according to accepted trade practices.

EFFORT Work requires moderate to heavy physical exertion (such as frequently moving heavy items weighing 45 pounds and sometimes moving items weighing 90 pounds) and close mental attention to details while operating equipment on active airfields and roadways. Sits in vehicles for long periods and may be subject to the vibrations of operating equipment. Maneuvers body (e.g., reaches, bends, turns or otherwise positions self) to operate controls of vehicles and coordinate functions of equipment or attachments for various purposes.

Frequently makes precise adjustments on electric over hydraulic, and electronically-controlled equipment. Gives and receives signals (usually hand signals). Recognizes changes in the touch of controls that indicate possible unseen underground obstructions. Obtains information about the status of equipment/systems and need for fuel and operation characteristics of vehicles from dials and gauges. Frequently communicates by two-way radio with shop personnel and Airport Operations and occasionally with the Federal Aviation Administration (FAA) tower. Responds to sound warnings such as back-up alarms on equipment and vehicles. Operates vehicles using judgment in consideration of weather, traffic and other factors.

WORKING CONDITIONS Regularly works outside in all types of weather, including inclement weather (rain, fog, snow, ice, cold and high heat/humidity), and can spend long hours in the sun. Is subject to exposure to dust; dirt; grease; hot asphalt; unpleasant odors; fumes; potentially hazardous materials; noise from aircraft and diesel engines; possible flying rock particles; prolonged, sometimes violent vibrations of equipment; and hazards of driving on a busy airport. Exercises care and uses personal protective equipment and other safety gear, such as hard hat, face shield, safety shoes, chaps, gloves, hearing protection, and eye protection, as required.

OTHER SIGNIFICANT JOB ASPECTS This position is required to work various shifts as needed based on workload, operational needs, shift coverage, etc. Assignments include night hours and weekends. Is subject to hold-over and recall on a 24-hour basis for essential services and emergencies such as snow removal.