

JOB TITLE: Equipment Operator  
EMPLOYEE:  
VRC: Kyle Pletz

DOT #: 859.683-014  
CLAIM #



**King County**

## **KING COUNTY ON SITE JOB ANALYSIS**

**JOB TITLE** Equipment Operator

**JOB CLASSIFICATION** Equipment Operator

**DOT TITLE** Heavy Equipment Operator

**DOT NUMBER** 859.683-014

**DEPARTMENT** Transportation

**DIVISION** Roads

**# OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE** 41

### **JOB STATUS**

Full Time, Career Service.

### **ADDRESS OF WORKSITE**

155 Monroe Avenue North  
Renton, WA 98056-3819

**CONTACT'S NAME** Allan Momohara, Lindy Jenson and Jerry Tracy.

**CONTACT'S PHONE** 206-205-7084, 206-296-8293 and 206-296-8179.

**EMPLOYER JOB TITLE** Supervisor

**DATE COMPLETED** 2/27/03

**VRC NAME** Jeff Casem

**DATE REVISED** 5/12/09

### **WORK HOURS**

8 hours per day five days per week, 7:00am-3:30pm during winter months. 10 hours per day Monday through Thursday 6:00am-4:30 during summer months.

### **OVERTIME**

Required on an emergency basis.  
Fair Labor Standards Act Non-Exempt (hourly).

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**King County Job Analysis Form Revised 11/9/01**

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### **JOB DESCRIPTION**

Operating motorized equipment to construct and maintain King County rights of way, facilities and structures.

### **ESSENTIAL ABILITIES FOR ALL KING COUNTY JOB CLASSIFICATIONS**

1. Ability to demonstrate predictable, reliable, and timely attendance.
2. Ability to follow written and verbal directions and to complete assigned tasks on schedule.
3. Ability to read, write & communicate in English and understand basic math.
4. Ability to learn from directions, observations, and mistakes, and apply procedures using good judgment.
5. Ability to work independently or part of a team; ability to interact appropriately with others.
6. Ability to work with supervision, receiving instructions/feedback, coaching/counseling and/or action/discipline.

### **JOB SPECIFIC REQUIREMENTS**

Knowledge of driving laws, traffic control methods, automotive systems, Seattle/King County roadways and surrounding street system, operational manuals, road building materials, road conditions and routes and basic survey principles. Must also have knowledge of and ability to apply construction safety principles and practices as well as knowledge of federal, state, county and local environmental regulations related to the work. Must possess skills in communications (oral and written), customer service, defensive driving and skill in heavy equipment operations as well as skill and mechanical aptitude in use and care of tools and equipment. Must have familiarity with and skill in using small hand tools as well as skill in operating equipment in high-density traffic under adverse weather conditions. Must have a Washington State Driver's License, Commercial Driver's License class B with air-brake endorsement and Washington State Department of Transportation medical card as well as certification from the Solid Waste Association of America (SWANA) or other specialized certifications or licenses (some positions).

### **ESSENTIAL FUNCTIONS Listed in order of importance**

1. Operate motorized equipment such as grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower. Operate equipment to grade, spread, sweep, remove, mow, dig, ditch, build, cut, load, clean, lift, pave or apply various materials.
2. Respond to on-site accidents, emergencies and hazardous spills to assess immediate concerns and respond to them with equipment.
3. Monitor, control and direct activities at job site; control flow and sequence of trucks dumping; direct customers to appropriate areas.
4. Perform visual safety inspection of vehicle, check and correct fluid levels and tire pressure, refuel vehicles, maintain vehicle cleanliness and perform pre-trip inspections.

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5. Identify potentially hazardous or unacceptable materials at job site and coordinate proper disposal.
6. Determine work duties and assign to crew as needed; determine types and quantities of materials needed.
7. Inform, direct, monitor and control public customers and vendors.
8. Identify work duties and assign to crew.
9. Identify staffing needs, coordinate special projects.
10. Stockpile and organize road construction materials.

### **TOOLS, MACHINES, EQUIPMENT, PRODUCTS, AND SERVICES USED**

Two-way radio, hearing protection, pager, telephone, various hand tools, grease gun, cleaning equipment, shovel, County vehicle (pickup truck), laser level, fuel pump, jump tank, motorized cart, grader, track hoe, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

### **PHYSICAL DEMANDS AS JOB IS TYPICALLY PERFORMED**

Continuously = occurs 66-100% of the time

Frequently = occurs 33-66% of the time

Occasionally = occurs 1-33% of the time

Rare = may occur less than 1% of the time

Never = does not ever occur (such demands are not listed)

### **This job is classified as**

Medium

### **Standing**

Frequently on metal, dirt, gravel, cement, mud and uneven surfaces for up to 45 minutes at a time for up to 8 hours total in a work shift. Most commonly occurs while operating the paver machine and inspecting work sites.

### **Walking**

Occasionally on metal, dirt, gravel, cement, mud and uneven surfaces for distances of up to ½ mile for up to 15 minutes at a time for up to 3 hours total in a work shift. Most commonly occurs while inspecting work sites, dumping loads and retrieving tools from the County vehicle as well as traversing to and from the work site.

### **Sitting**

Continuously on an automobile or machinery seat for up to 2 hours at a time for up to 8 hours total in a work shift. Most commonly occurs while operating motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

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### **Climbing stairs**

Occasionally for up to 10 seconds at a time while climbing up to 4 steps for up to 10 minutes total in a work shift. Most commonly occurs while entering and exiting office buildings and heavy equipment as well as traversing over curbs.

### **Climbing**

Occasionally to heights of 6 feet for up to 1 minute at a time for up to 1 hour total in a work shift. Most commonly occurs while entering and exiting grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

### **Balancing**

Continuously on uneven ground and heavy machinery at heights of up to 6 feet for up to 4 hours at a time for up to 8 hours total in a work shift. Most commonly occurs while traversing through work sites and when operating the paving machine.

### **Bending/Stooping**

Occasionally on metal, dirt, gravel, cement, mud and uneven surfaces for up to 1 minute at a time for up to 30 minutes total in a work shift. Most commonly occurs while inspecting and greasing equipment. The employee might be able to reduce bending/stooping by alternating with crouching or kneeling.

### **Kneeling**

Occasionally on metal, dirt, gravel, cement, mud and uneven surfaces for up to 1 minute at a time for up to 30 minutes total in a work shift. Most commonly occurs while inspecting and greasing equipment. The employee might be able to reduce kneeling by alternating with crouching or bending/stooping.

### **Crouching**

Occasionally on metal, dirt, gravel, cement, mud and uneven surfaces for up to 1 minute at a time for up to 30 minutes total in a work shift. Most commonly occurs while inspecting and greasing equipment. The employee might be able to reduce crouching by alternating with bending/stooping or kneeling.

### **Operating Controls with Feet**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating heavy machinery such as a bulldozer.

### **Reaching above shoulder height**

Occasionally for up to 1 minute at a time for up to 15 minutes total in a work shift while greasing, fueling and opening windows in machinery.

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**Reaching at waist to shoulder height**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

**Reaching at knee to waist height**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating hand controls and levers on machinery such as the bulldozer and track hoe.

**Reaching at floor to knee height**

Occasionally for up to 1 minute at a time for up to 10 minutes total in a work shift while manipulating an emergency brake, four wheel drive lock lever and greasing gun as well as when cleaning the tracks of the machinery.

**Lifting 1-10 pounds**

Occasionally for up to 1 minute at a time for up to 10 minutes total in a work shift while manipulating various hand tools, shovel, grease gun and laser levels.

**Carrying 1-10- pounds**

Occasionally for distances of up to 100 feet for up to 3 minutes at a time for up to 15 minutes total in a work shift. Most commonly occurs with weights of 4-8 pounds while transporting grease gun, various hand tools, shovel and laser level to and from work sites.

**Pushing and Pulling**

Continuously for up to 2 hours at a time with up to 10 pounds of force for up to 8 hours total in a work shift while operating hand controls and levers on machinery such as the bulldozer and track hoe.

**Handling**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating hand controls and levers on machinery such as motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

**Operating Controls with Hands**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating hand controls and levers on machinery such as motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower. Hand controls consist of steering wheel, various levers, joystick, thumb and trigger buttons and handbrakes.

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### **Fingering**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating controls and levers on machinery such as motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower. Finger controls consist of keys, various small levers, joystick, thumb and trigger buttons and switches.

### **Feeling**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while identifying equipment failure through unusual vibrations.

### **Talking**

Continuously for up to 2 hours at a time with for up to 8 hours in a work shift while using a two-way radio, communicating with engineers and co-workers as well as ordering and directing material when operating a track hoe.

### **Far acuity—clarity of vision at 20 feet or more**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

### **Depth perception—three dimensional vision**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

### **Field of vision—observing an area that can be seen up and down or right or left while eyes are fixed on a given point**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower.

### **Night vision--seeing after sundown with minimal or no supplemental light sources**

Continuously for up to 2 hours at a time for up to 8 hours total in a work shift while operating motorized cart, grader, backhoe, loader, compactor, bulldozer, excavator, scraper, roller, forklift, paving machine, sweeper and mower during emergency situations or paving at night.

### **TEMPERAMENTS**

Directing, controlling, or planning activities of others: Frequently  
Performing repetitive or short-cycle work: Continuously  
Influencing people in their opinions, attitudes, and judgments: Rare  
Performing a variety of duties: Continuously  
Expressing personal feelings: Continuously

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Working alone or apart in physical isolation from others: Continuously  
Working effectively under stress: Continuously  
Attaining precise set limits, tolerances, and standards: Continuously  
Working under specific instructions: Continuously  
Working with others: Continuously  
Making judgments and decisions: Continuously

### **ENVIRONMENTAL FACTORS**

Work is performed in a construction and development work site setting with direct exposure to the elements while operating heavy machinery in open cockpits. The employee is continuously exposed to moving machinery, vibration, dust, fumes and odors. The employee also works in enclosed cab machines that have limited ventilation. The heavy equipment can range from loud to very loud.

#### **Workers are exposed to**

Outside weather: Continuously  
Extreme cold: Continuously  
Extreme heat: Continuously  
Wet: Continuously  
Humidity/dampness: Continuously  
Fumes: Continuously  
Odors: Continuously  
Dusts: Continuously  
Mists: Continuously  
Gases: Continuously  
Poor ventilation: Continuously  
Moving mechanical parts: Continuously  
Vibration: Continuously  
Working in high, exposed places: Continuously

Other:

Loud noise caused by heavy machinery sufficient to cause marked distractions or possible hearing loss.

### **POTENTIAL MODIFICATIONS TO JOB**

Air seats in some equipment to increase comfort and lumbar support when sitting for extended durations.

Pending scheduling and business demand the employee might be able to work with particular machines to increase or decrease sitting and standing; the paving machine is operated while standing whereas the mower and broom truck are operated while seated.

Transitional return to work might be available depending on business demand.

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Signature & title of evaluator

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Date

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Signature & title of contact

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Date

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Signature & title of employee

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Date

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**HEALTH CARE PROVIDER SECTION**  
Check all that apply

The employee is released to perform the described duties without restrictions on performance or work hours.

The employee is released to perform the described duties on a reduced schedule. The recommended schedule is:

\_\_\_\_\_

Temporary until \_\_\_\_\_  Permanent as of \_\_\_\_\_

The employee is released to perform the described job with the following modifications:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Temporary until \_\_\_\_\_  Permanent as of \_\_\_\_\_

The employee is not released to perform the described duties due to the following job functions:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Temporary until \_\_\_\_\_  Permanent effective \_\_\_\_\_

The employee is unable to work in any capacity.  
A release to work is:  anticipated by \_\_\_\_\_  Not expected

The limitations are due to the following objective medical findings:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Printed or typed name and phone number of Health Care Provider

\_\_\_\_\_  
Signature of Health Care Provider

\_\_\_\_\_  
Date