

EMPLOYEE:

CLAIM #



# Job Analysis Form

ALTERNATE FORMAT AVAILABLE

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**JOB TITLE** Equipment Operator I

**JOB CLASSIFICATION** Equipment Operator I

**DOT TITLE** Heavy Equipment Operator

**DOT NUMBER** 859.683-010

**DEPARTMENT** Transportation **DIVISION** Airport

**# OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE** 2

**CONTACT'S NAME & TITLE** Patricia Tonsgard, Airfield Maintenance Manager

**CONTACT'S PHONE** 206-296-7390

**ADDRESS OF WORKSITE**

6518 Ellis Ave S.  
Seattle, WA 98108-2740

**VRC NAME** Kyle Pletz

**DATE COMPLETED** 10/20/09

**WORK HOURS**

Typical schedule will be 5 x 8hr/days or 4 x 10hr/days that may include a Saturday or Sunday. Schedules are subject to change.

**OVERTIME** (Note: Overtime requirements may change at the employer's discretion)

Required, approximately 10 hours per month. Overtime varies based upon business demand such as inclement weather. Alternate shift work will be required to meet the operational business needs of the Airport.

**JOB DESCRIPTION**

This is skilled work operating heavy (road) maintenance equipment with complex controls in a safe and efficient manner.

**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**

- Experience or ability in operating plows, backhoe, trackhoe, grader, front-end loader, boom truck
- Knowledge of and ability to apply construction safety principles and practices.
- Knowledge of federal, state, county and local environmental regulations related to the operating heavy equipment.
- Knowledge of traffic control methods
- Communications skills (oral and written).
- Customer service skills.
- Defensive driving skills.
- Skill and mechanical aptitude in use and care of tools and equipment.
- Skill in heavy equipment operations.
- Skill in operating equipment under adverse weather conditions.
- Ability to work independently and in a team environment.
- Ability to have predictable and reliable attendance.
- Knowledge of safety procedures construction, road/airfield maintenance, or other heavy manual labor areas.
- Ability to work independently in a very busy, demanding airfield environment under sometimes stressful conditions.
- Ability to exercise proper situational awareness in demanding conditions (i.e., working in close proximity to landing, departing and taxiing aircraft; precautions during day/ night operations, etc.).
- Ability to effectively communicate with other Airport employees and Air Traffic Control Tower utilizing multiple radios.
- Ability to lift, carry, move, or handle up to 50 pounds.
- Ability to perform duties involving physical labor including bending, kneeling, standing, reaching, climbing, stooping, squatting, pushing, and twisting.
- Ability to perform work outdoors and in inclement weather.
- Possession of a valid WA State CDL Class B license.
- Must be able to distinguish colors.
- Candidate must obtain First Aid, CPR, and airfield driver's certifications within 3 months after start of employment.

## **ESSENTIAL FUNCTIONS**

1. Inspect assigned vehicle and perform minor preventive maintenance and associated manual tasks to correct safety problems as necessary.
2. Determine safe and efficient methods of operation of all County equipment.
3. Drive and operate a rotary snow blower and plows.
4. Operate backhoe, trackhoe, and grader in the maintenance and construction of aviation maintenance construction.
5. Safely operate a front-end loader with a bucket size of two and one-half to four yards and a grader of over ten tons in repair and maintenance of roads, shoulders, and other roadway features.

6. Safely operate other miscellaneous maintenance equipment, including road brooms, rollers, dozers, front-end loaders, etc.
7. Operate a crane and boom truck.
8. Respond courteously to general public and airport tenants.
9. Remove snow and ice.
10. Maintain and repair runways and taxiways
11. Operate motor vehicles on runways and taxiways under the control of the Airport's Air Traffic Control Tower to perform airfield maintenance tasks.
12. Lift, carry, move, or handle up to 50 pounds
13. May be requested to work down, out of this classification, in the event of emergencies, equipment failures and repairs, or as business requirements necessitate.
14. Will occasionally be required to work other than normal working hours.

### **PERSONAL PROTECTIVE EQUIPMENT USED**

Ear protection, eye protection, rain gear, breathing protecting, fall protection, gloves, coveralls, hard hat and work boots.

### **OTHER TOOLS & EQUIPMENT USED**

Grader, backhoe, excavator, front end loader, crane, trackhoe, rollers, snow blower, scraper, dozer, sweeper, forklift, mower, radio, hand tools, boom lift, choker, straps, pen or pencil.

### **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

Rarely = may occur less than 1% of the time

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

Highly Repetitive = Repeating the same motion every few seconds with little or no variation for more than two hours total per day.

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

Medium—exerting 20 to 50 pounds of force occasionally, and/or 25-50 pounds of force frequently, and/or 10-20 pounds of force constantly.

### **Standing**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally to frequently on grass, vegetation, sloped surfaces, uneven surfaces, blacktop, cement, gravel, dirt and heavy equipment for up to 10 minutes at a time for up to 2-3 hours total in a work shift. Most commonly occurs while flagging, inspecting equipment, talking to coworkers, reviewing plans and paperwork, and making minor adjustments/maintenance to equipment.

### **Walking**

Health Care Provider initials if restricted \_\_\_\_\_

Frequently on grass, vegetation, sloped surfaces, uneven surfaces, blacktop, cement, gravel, dirt and equipment for a distance of up to 1/2 mile at a time for up to 15 minutes at a time for up to 3 hours total in a work shift. Most commonly occurs while moving between pieces of equipment,

inspecting equipment, inspecting job sites and while interacting with other workers and lead personnel.

**Sitting**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously on equipment seats for up to 2.5 hours at a time for up to 9 hours total in a work shift. Most commonly occurs while operating various pieces of motorized equipment such as sweeper, mower, backhoe, front loader, snow blower, boom truck, grader, etc.

**Climbing**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely to Occasionally on various pieces of motorized equipment to heights of 6-10 feet for up to 15-20 seconds at a time for up to 5-10 minutes total in a work shift. Most commonly occurs while getting on and off equipment as well as climbing around equipment to perform inspections.

**Climbing Stairs**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely for up to 3 flights at a time for up to 2 times in a shift for up to 5 minutes total.

**Balancing**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally on uneven surfaces, wet/slick surfaces and various pieces of motorized equipment at heights of 6-10 feet for up to 5 minutes at a time for up to 1 hour in a total in a work shift. Most commonly occurs while getting on and off equipment as well as when walking on unfinished job sites.

**Bending neck up**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 1 minute at a time for up to 1 hour total in a work shift. Most commonly occurs while operating the boom truck, looking at up at gauges/radios in equipment and co-workers in equipment.

**Bending neck down**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 1 minute at a time for up to 2.5 hours total in a work shift. Most commonly occurs while looking at controls/gauges, operating a backhoe, operating sweeper truck and performing equipment inspections.

**Bending/Stooping**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally on vegetation, uneven surfaces, slick/wet surfaces, blacktop, cement, dirt, gravel, equipment surfaces for 30 seconds at a time for up to 2 hours total in a work shift. Most commonly occurs while checking oil, operating a backhoe, sweeping, cleaning tracks, and inspecting equipment.

**Kneeling**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely on wet/slippy surfaces, vegetation, slick surfaces, uneven ground and steep slopes for up to 1 minute at a time for up to 5 minutes total in a work shift. Most commonly occurs while performing equipment inspections. During most duties the employee can alternate between bending/stooping, kneeling and squatting in accordance with personal preference.

**Squatting**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely on wet/slippy surfaces, vegetation, slick surfaces, uneven ground and steep slopes for up to 1 minute at a time for up to 5 minutes total in a work shift. Most commonly occurs while performing equipment inspections. During most duties the employee can alternate between bending/stooping, kneeling and squatting in accordance with personal preference.

**Operating Controls with Feet**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 9 hours in a work shift while depressing foot pedals and controls of various pieces of motorized equipment.

**Reaching above shoulder height**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 3 minutes at a time for up to 10-20 minutes total in a work shift while operating controls on equipment, performing inspections, greasing equipment and cleaning tracks as well as when climbing on and off equipment.

**Reaching at waist to shoulder height**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 9 hours in a work shift while operating hand controls on the various equipment during the operation process and cleaning tracks as well as when climbing on and off of equipment.

**Reaching at knee to waist height**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely for up to 30 seconds at a time for up to 5 minutes total in a work shift while performing equipment inspection.

**Reaching at floor to knee height**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely on wet/slippy surfaces, vegetation, slick surfaces, uneven ground and steep slopes for up to 1 minute at a time for up to 5 minutes total in a work shift. Most commonly occurs while performing equipment inspections.

**Lifting 1-10 pounds**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 3-5 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs with weights of 1-4 pounds while talking on the radio, plans, and using small tools or equipment.

**Carrying 1-10 pounds**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for distances of 50 feet for up to 5 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 1-4 pounds while transporting plans, fluids for equipment and small hand tools.

**Lifting 11-20 pounds**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely for up to 30 seconds at a time for up to 5 minutes total in a work shift. Most commonly occurs with weights of 11-15 pounds while utilizing various hand tools and equipment such as chains and chokers.

**Carrying 11-20 pounds**

Health Care Provider initials if restricted \_\_\_\_\_

Rarely to Occasionally for up to 3 minutes at a time for distances of 10-50 feet for up to 30-45 minutes total in a work shift. Most commonly occurs with weights of 11-15 pounds while obtaining, using, or operating tools and equipment in conjunction with equipment operation tasks.

**Lifting 21-50 pounds**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 3 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs with weights of 25-40 pounds while manipulating tire chains, rigging equipment (straps) and outrigger platforms.

**Carrying 21-50 pounds**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 3 minutes at a time for distances of up to 50 feet for up to 15-30 minutes total in a work shift. Most commonly occurs with weights of 25-45 pounds while transporting tire chains, rigging equipment (straps) and outrigger platforms.

**Pushing and Pulling**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally from 5 seconds at a time with a force of 20-50 pounds for up to 1 hour total in a work shift while opening and closing equipment doors, using hand holds and getting in and out of equipment. The weight of doors varies per equipment and the force required by the worker depends if the equipment is on level or uneven ground.

**Handling**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously and highly repetitive for up to 2.5 hours at a time for up to 9 hours total in a work shift while grasping steering wheel of multiple pieces of equipment, using hand controls on equipment, using the radio, grabbing hand holds on equipment, and while using tools and equipment.

**Operating Controls with Hands**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously and highly repetitive for up to 2.5 hours at a time for up to 9 hours in a work shift while steering and controlling the direction of equipment, and while pushing/pulling controls, turning knobs, operating joysticks and otherwise operating equipment to perform construction, maintenance or material moving functions.

**Fingering**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 1 minute at a time for up to 30 minutes total in a work shift while pushing buttons, operating the radio, and completing paperwork/computer work.

**Feeling**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously for up to 2.5 hours at a time for up to 9 hours in a work shift while operating equipment controls (such as joysticks) by feeling and sensation. The employee needs to be able to feel in order to identify equipment malfunction.

**Talking**

Health Care Provider initials if restricted \_\_\_\_\_

Occasionally for up to 5 minutes at a time for up to 1 hour total in a work shift while attending meetings, conversing with superiors and co-workers, ordering parts, communicating with the control tower and using the 2-way radio.

**Hearing**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously for up to 3 hours at a time for up to 9 hours total in a work shift while driving as well as listening for moving machines, back-up sirens, moving aircraft, alarms, faulty machinery, and other safety hazards as well as communicating with the control tower.

**Seeing**

Health Care Provider initials if restricted \_\_\_\_\_

Continuously for up to 3 hours at a time for up to 9 hours in a work shift while operating various pieces of machinery and equipment operation functions, observing gauges and controls on equipment, performing safety inspections, completing paperwork, performing material moving and construction activities and operating controls as well as ensuring precise movement/placement of equipment and equipment adaptations. The employee operates various pieces of equipment at an airport and must be able to distinguish colors and identify potentially hazardous situations as there is constant exposure to fast moving equipment such as airplanes.

**ENVIRONMENTAL FACTORS**

Work is performed in an airport setting where the worker is exposed to or in close proximity to heavy operating machinery, high voltage, sewage, adverse weather conditions, moving aircraft, uneven surfaces, noxious or toxic gasses and chemicals, as well as loud noises. The noise level is quiet to very loud. Hearing protection, eye protection, breathing protection and hard hats are required in some areas.

**The noise level is**

Approximately 50-140 decibels. The noise is caused by power tools and airplanes.

HCP Initials if Restricted

\_\_\_\_\_

**Work environment may include the following exposure(s):**

- Outside weather: Continuously
- Non-weather related temperatures below 55 degrees: Rare
- Non-weather related temperatures above 75 degrees: Rare
- Wet: Rarely
- Humidity/dampness: Rare
- Fumes: Frequently
- Odors: Frequently
- Dusts: Frequently
- Mists: Occasionally
- Gases: Occasionally
- Moving mechanical parts: Continuously
- Vibration: Continuously
- Working in high, exposed places: Occasionally
- Toxic or caustic chemicals: Rare

HCP Initials if Restricted

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KING COUNTY JOB ANALYSIS COMPLETED ON: 10/20/09  
JOB TITLE: Equipment Operator I-Airport  
EMPLOYEE:

DOT #: 859.683-010  
CLAIM #

**POTENTIAL MODIFICATIONS TO JOB**

Install a rear facing camera to reduce twisting when reversing some equipment.  
Assistance is available, on most occasions, for heavy lifting.

### SIGNATURES

Signatures on this page are obtained before the document becomes available for use and are not required each time the document is reused. Obtained signatures are kept on file at King County Safety & Claims. The Health Care Provider signature section is separate and appears on the following page.

Kyle Pletz, Vocational Consultant  
Printed name & title of VRC evaluator

\_\_\_\_\_  
Signature of VRC evaluator

\_\_\_\_\_  
Date

Patricia Tonsgard, Airfield Maintenance Manager  
Printed name & title of contact

\_\_\_\_\_  
Signature of contact

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed name & title of contact

\_\_\_\_\_  
Signature of contact

\_\_\_\_\_  
Date

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

- The employee is released to perform the described duties without restrictions on performance or work hours as of \_\_\_\_\_.
  
- The employee is released to perform the described duties on a reduced schedule as of \_\_\_\_\_. 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