

EMPLOYEE:

CLAIM #



## Job Analysis Form

ALTERNATE FORMAT AVAILABLE

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**JOB TITLE** Facilities Maintenance Constructor

**JOB CLASSIFICATION** Facilities Maintenance Constructor

**DICTIONARY OF OCCUPATIONAL TITLES (DOT) NUMBER** 819.384-010

**DOT TITLE** Welder, Combination

**DEPARTMENT** Transportation

**DIVISION** Transit

**# OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE** 12

**CONTACT'S NAME & TITLE** Stephanie Erickess, Transit Supervisor

**CONTACT'S PHONE** 206-684-2260

### ADDRESS OF WORKSITE

11911 East Marginal Way South, Building C  
Tukwila, WA 98168

**VRC NAME** Kyle Pletz

**DATE COMPLETED** 6/21/05

**VRC NAME** Jeff Casem

**DATE REVISED** 9/8/09

### WORK HOURS

10 hours per day, 4 days per week, on most occasions, but on a rare occasion or 8 hours per day, 5 days per week. Day shift: 6:00am to 4:30pm, Monday through Thursday or Tuesday through Friday. Swing shift: Sunday through Wednesday 1:00pm to 11:30pm or Wednesday through Saturday 1:00pm to 11:30pm. Shifts are picked via seniority.

**OVERTIME** (Note: Overtime requirements may change at the employer's discretion)  
Rarely required but regularly offered to employee, based on seniority.

### JOB DESCRIPTION

Perform skilled welding, plumbing and mechanical work in the repair, maintenance, modification and replacement of plumbing and piping systems for Transit facilities, equipment and structures. These systems include domestic water, sewer, industrial wastewater, irrigation, natural gas, pneumatic air, steam, fuel, hydraulic and vehicle fuel.

### 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**

Three years of prior related skilled trade experience in the plumbing, welding, and/or mechanical field is required. This position requires completion of a training or vocational school program, or the equivalent, in the welding field. Must also have knowledge of and skill in welding techniques, heavy equipment operation, plumbing repair and installation, mechanical repair and related construction codes. Must also have knowledge of standard construction practices, principles and building systems. Must have the ability to work independently and without direct supervision as well as work on a team with a diverse group of employees. Must have good verbal communication skills and the ability to establish good working relationships. Must have the ability to read and follow building blueprints and other design schematics. Must possess a current and valid Washington State Driver's license.

Certified Space Entry certification, Forklift and high lift certification, Combination Drivers License with Class A endorsement, within 6 months. AS-2 and CT fire systems certifications are required within 2 years of hire date.

### **ESSENTIAL FUNCTIONS**

1. Fabricates and welds metals for the repair, maintenance or construction of facilities, bus passenger shelters, equipment and structures.
2. Operates and hauls heavy equipment, including boom trucks, cranes, backhoes, loaders, dump trucks, forklifts, high lifts, snow plow and roadway sanding equipment.
3. Maintains and services equipment such as pumps, pressure washers, gates, shop machinery, grounds keeping equipment and heavy equipment.
4. Installs, modifies, repairs, tests and certifies components of plumbing and piping systems, including restroom fixtures, water fountains, valves and backflow prevention assemblies.
5. Repairs, maintains, and modifies components of industrial waste and piping systems.
6. Repairs, maintains, tests and certifies fire prevention systems, including sprinklers and associated mechanical devices.
7. Installs and anchors equipment, assemblies and auxiliary devices to structures, per building and seismic codes.
8. Keeps simple records of time and materials.

### **PERSONAL PROTECTIVE EQUIPMENT USED**

Hardhat, steel toed boots, hearing protection, welding hood and leathers, leather and rubber gloves, safety vest, knee pads, rain suit and hat, body harness, safety glasses, respirator (half, full and supplied air), dust mask and rubber boots.

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

Hand tools including hammer, screwdriver, etc, power tools including table saw, miter saw, sanders, band saw, sawzall, monorail crane, rotor-hammer, mortis machine, nail gun, radial arm saw, planer, generator, air pump, pneumatic tools, ladders, pole gun, drills, drill press, high lift, cement mixer, laser level, county van or pickup truck (both manual and automatic transmission), phone, mobile mechanical lift, wood, metal, aluminum, steel, glass, composite construction

materials used to build shelters, computer, boom trucks, coring machine, cranes, backhoes, loaders, dump trucks, forklifts, high lifts, snow plow and roadway sanding equipment.

### **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**

Heavy—exerting 50-100 pounds of force occasionally, and/or 25-50 pounds of force frequently, and/or 10-20 pounds of force constantly to move objects.

### **Standing**

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

Frequently on concrete, tile, vinyl, carpet, rubber mat, dirt and uneven surfaces for up to 3 hours at a time for up to 5 hours total in a work shift. Most commonly occurs while welding, grinding, using the band saw, performing backflow duties, performing fire system maintenance and performing work while in a boom lift.

### **Walking**

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

Frequently on concrete, tile, vinyl, carpet, rubber mat, dirt and uneven surfaces for distances of up to 100 yards for up to 5 minutes at a time, for up to 5 hours total in a work shift while moving around the shop and out in the field to perform assembly, disassembly, and fabrication duties as well as when traversing to/from the work truck, within the bus tunnel. The employee also walks when moving shelters around the shop on wheels, obtaining and transporting tools, and finding leaks in pipes.

### **Sitting**

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

Occasionally on padded office chair or automobile seat for up to 1 hour at a time for up to 3 hours total in a work shift. Most commonly occurs while completing paperwork, driving a County vehicle and operating a forklift as well as operating various pieces of equipment such as a dump truck, sanding truck, loaders, boom trucks etc.

### **Climbing stairs**

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

Occasionally for up to 1 minute at a time while climbing 3 flights for up to 30 minutes total in a work shift while working in various buildings that may be up to 3 stories.

### **Climbing**

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

Occasionally on ladders or scaffolding to heights of 30 feet for up to 30 seconds at a time for up to 3 hours total in a work shift. Most commonly occurs while working on overhead door assemblies and piping as well as getting in and out of the service van and using step stools and ladders.

### **Balancing**

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

Frequently on wet floors, ladders, booms and scaffolding at heights of up to 30 feet for up to 30 minutes at a time and up to 5 hours total in a work shift. Most commonly occurs while walking on freshly mopped floors and walking through the loading dock area as well as when performing work on a boom lift, performing work on a rolling cart and working on overhead pipes. The Constructor also balances when climbing stairs and ladders, or loading awkward and/or heavy materials into the service truck.

### **Bending neck up**

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

Frequently for up to 5 minutes at a time for up to 5-6 hours total in a work shift. Most commonly occurs while reaching for tools, installing and maintaining overhead pipes, installing and removing shelter parts, fabricating parts, maintaining/repairing doors, changing oil, performing shelter construction, welding various pieces of equipment and materials, retrieving parts from storage areas, drilling holes in shelters as well as repairing/welding shelters and finding leaks in pipes.

### **Bending neck down**

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

Frequently for up to 5 minutes at a time for up to 5-6 hours total in a work shift. Most commonly occurs while reaching for tools, installing and maintaining low pipes, installing and removing shelter parts, fabricating parts, maintaining/repairing doors, coiling hoses, changing oil, performing shelter construction, welding various pieces of equipment and materials, retrieving parts from storage areas, drilling holes in shelters, repairing/welding shelters and attaching wheels to shelter frames.

### **Bending/Stooping**

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

Frequently for up to 5 minutes at a time for up to 5-6 hours total in a work shift. Most commonly occurs while reaching for tools, installing and maintaining low pipes, installing and removing shelter parts, fabricating parts, maintaining/repairing doors, coiling hoses, changing oil, performing shelter construction, welding various pieces of equipment and materials, retrieving parts from storage areas, drilling holes in shelters, getting in and out of service truck, repairing/welding shelters and attaching wheels to shelter frames. Bending/stooping may be reduced by alternating with kneeling or squatting.

### **Kneeling**

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

Frequently for up to 5 minutes at a time for up to 5-6 hours total in a work shift. Most commonly occurs while reaching for tools, installing and maintaining low pipes, installing and removing shelter parts, fabricating parts, maintaining/repairing doors, coiling hoses, changing oil, performing shelter construction, welding various pieces of equipment and materials, retrieving parts from storage areas, drilling holes in shelters, repairing/welding shelters and attaching wheels to shelter frames. Kneeling may be reduced by alternating with bending/stooping or squatting.

### **Squatting**

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

Frequently for up to 5 minutes at a time for up to 5-6 hours total in a work shift. Most commonly occurs while reaching for tools, installing and maintaining low pipes, installing and removing shelter parts, fabricating parts, maintaining/repairing doors, coiling hoses, changing oil, performing shelter construction, welding various pieces of equipment and materials, retrieving parts from

storage areas, drilling holes in shelters, repairing/welding shelters and attaching wheels to shelter frames. Squatting may be reduced by alternating with bending/stooping or kneeling.

### **Crawling**

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

Occasionally on concrete, tile, vinyl, carpet, rubber mat, dirt and uneven surfaces for distances of up to 20 feet for up to 2 minutes at a time for up to 10 minutes total in a work shift. Most commonly occurs while installing and removing shelter parts, fabricating parts, drilling holes in shelters, loosening/tightening bolts, receptacles, and benches to ground and attaching wheels to shelter frames as well as installing, maintaining and removing piping, pumps and drainage systems.

### **Operating Controls with Feet**

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

Occasionally for up to 1.5 hours at a time for up to 3 hours total in a work shift while driving a County vehicle with an automatic as well as operating various pieces of equipment, with automatic or manual transmission, such as presses, TIG welder, dump truck, sanding truck, loaders, boom trucks, backhoes, loaders and snow plow.

### **Reaching above shoulder height**

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

Occasionally for up to 5 minutes at a time for up to 2 hours in a work shift working on overhead door assemblies piping, welding, inspecting piping and constructing shelters.

### **Reaching at waist to shoulder height**

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

Frequently for up to 2 hours at a time for up to 5 hours total in a work shift. Most commonly occurs while using hand tools, cutting materials, performing bench work, loading parts in/out of a service truck, welding, plumbing and completing documentation.

### **Reaching at knee to waist height**

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

Occasionally for up to 30 minutes at a time for up to 2 hours in a work shift while loading/unloading service truck, removing/installing parts of shelters, manipulating pumps, using a band saw and operating power tools.

### **Reaching at floor to knee height**

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

Frequently for up to 5 minutes at a time for up to 5-6 hours total in a work shift. Most commonly occurs while reaching for tools, installing and maintaining low pipes, installing and removing shelter parts, fabricating parts, maintaining/repairing doors, coiling hoses, changing oil, performing shelter construction, welding various pieces of equipment and materials, retrieving parts from storage areas, drilling holes in shelters, repairing/welding shelters and attaching wheels to shelter frames.

### **Lifting 1-10 pounds**

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

Frequently & Highly Repetitive for up to 30 minutes at a time for up to 5 hours total in a work shift while utilizing hand and power tools, drilling mullions, manipulating materials, riveting, using a clipboard and manipulating a welding gun.

**Carrying 1-10 pounds**

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

Frequently & Highly Repetitive for distances of up to 100 yards for up to 5 minutes at a time for up to 4 hours total in a work shift while transporting hand and power tools, shelter parts and materials to and from work areas and the service truck.

**Lifting 11-20 pounds**

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

Occasionally & Highly Repetitive for up to 1 hour at a time for up to 2 hours total in a work shift while using a roto-hammer and other power tools and using a tool belt as well as manipulating tool boxes, materials, pumps, ladders, and tool kits.

**Carrying 11-20 pounds**

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

Frequently for distances of up to 100 yards for up to 5 minutes at a time for up to 4 hours total in a work shift while transporting hand and power tools, shelter parts and materials to and from work areas and the service truck.

**Lifting 21-50 pounds**

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

Rarely for up to 2-3 minutes at a time for up to 5 minutes total in a work shift while manipulating pneumatic tools, larger power tools, tool boxes, larger shelter parts and raw materials.

**Carrying 21-50 pounds**

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

Occasionally for distances of up to 100 feet for up to 30 seconds at a time for up to 2 hours total in a work shift while moving building materials, loading/unloading equipment as well as manipulating pumps (40 pounds), small engines, toolboxes and tool kits.

**Lifting 51-100 pounds**

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

Rarely for up to 10 seconds at a time for up to 5 minutes in a work shift while manipulating welders (60-72 pounds), gas cylinders, small engines, coring machine and raw materials. Assistance for lifting is available most of the time.

**Carrying 51-100 pounds**

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

Rarely for distances of up to 30 feet for up to 30 seconds at a time for up to 5 minutes total in a work shift. Most commonly occurs with weights of 60-72 pounds while transporting a portable welder (may have to carry up a flight of stairs for roof access), raw materials, small engines and pumps.

**Lifting 100+ pounds**

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

Rarely for up to 10 seconds at a time for up to 5 minutes total in a work shift while manipulating valves pumps, raw materials and acetylene/argon tanks. Assistance for lifting is available. These lifts are most commonly performed with two people.

**Pushing and Pulling**

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

Frequently to Continuously & Highly Repetitive with a force of 10-90 pounds for distances of up to 100 yards for up to 5-10 minutes at a time and up to 6-8 hours total in a work shift while moving a tool cart on concrete, tile, vinyl, carpet, rubber mat or dirt surfaces as well as assembling, disassembling, fabricating shelter parts, loading/unloading service truck, drilling, using the roto-hammer, manipulating manhole lids, manipulating dual vault doors, manipulating pumps setting

shelters, setting motors and pumps and manipulating a rolling platform. The employee pushes with 150 pounds of force for a distance of up to 100 yards 2 times per week when moving a bus shelter on wheels.

### **Handling**

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

Continuously & Highly Repetitive for up to 1.5 hours at a time for up to 8-9 hours total in a work shift while using hand tools, welding, manipulating materials, driving, using clamps and using power tools.

### **Operating Controls with Hands**

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

Continuously & Highly Repetitive for up to 1.5 hours at a time for up to 8-9 hours total in a work shift while using hand tools, welding, manipulating materials, using clamps and using power tools as well as when operating various pieces of equipment such as presses, welders, dump truck, sanding truck, loaders, boom trucks, backhoes, loaders, service truck and snow plow. Vehicles may have automatic or manual transmissions.

### **Fingering**

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

Occasionally for up to 10 minutes at a time for up to 1 hour total in a work shift while manipulating small pieces of hardware, manipulating keys and installing/removing bolts and screws as well as when stick welding, performing tool maintenance and using bits/punches.

### **Feeling**

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

Rare for up to 10 seconds at a time for up to 1 hour total in a shift while installing/removing screws that are difficult to see, identifying burs, finding wear marks on equipment, ensuring smoothness on feed rolls, identifying temperatures of equipment, identifying water flow in pipes and identifying vibrations for diagnostic purposes.

### **Talking**

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

Occasionally for up to 10 minutes at a time for up to 1 hour total in a work shift while conversing with co-workers, superiors and customers about job assignments and work orders.

### **Hearing**

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

Continuously for up to 2.5 hours at a time for up to 10 hours total in a shift while conversing with co-workers, superiors and customers as well as identifying equipment failure and potential hazards such as moving vehicles and pedestrians. The employee also uses hearing when operating heavy equipment.

### **Seeing**

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

Continuously for up to 2.5 hours at a time for up to 10 hours total in a work shift while driving a County vehicle and forklift, directing boom-truck driver on where to place shelters and identifying equipment failure and potential hazards such as moving vehicles and pedestrians. The employee also uses vision when using hand tools, welding, manipulating materials and using power tools as well as when operating various pieces of equipment such as presses, welders, dump truck, sanding truck, loaders, boom trucks, backhoes, loaders, service truck and snow plow.

### Working with Heightened Awareness

Health Care Provider initials if restricted

Continuously for up to 2.5 hours at a time for up to 10 hours total in a work shift while driving a County vehicle and forklift, directing boom-truck driver on where to place shelters and identifying equipment failure and potential hazards such as moving vehicles and pedestrians. The employee also uses heightened awareness when safely welding, and using power tools as well as when safely operating various pieces of equipment such as presses, welders, dump truck, sanding truck, loaders, boom trucks, backhoes, loaders, service truck and snow plow.

### ENVIRONMENTAL FACTORS

Work is performed in a variety of Transportation settings including bus shelters, vehicle maintenance bases, bus tunnels, bus barns, manholes, service pits and roof tops. The employee also uses safely sensitive equipment such as welders and power tools as well as various pieces of equipment such as presses, welders, dump truck, sanding truck, loaders, boom trucks, backhoes, loaders, service truck and snow plow.

#### The noise level is

Approximately 60-110 decibels. The noise is caused by power tools and equipment.

HCP Initials if Restricted

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

Outside weather: Frequently

Non-weather related temperatures below 55 degrees: Occasionally

Non-weather related temperatures above 75 degrees: Occasionally

Wet: Frequently

Humidity/dampness: Occasionally

Fumes: Frequently

Odors: Occasionally

Dusts: Frequently

Mists: Rarely

Gases: Occasionally

Moving mechanical parts: Frequently-Continuously

Vibration: Frequently

Working in high, exposed places: Occasionally

Working with explosives: Occasionally

Toxic or caustic chemicals: Occasionally

Confined spaces: Occasionally

HCP Initials if Restricted


### POTENTIAL MODIFICATIONS TO JOB

Anti-vibration gloves to provide additional comfort when operating power tools.

Anti-fatigue mats in the shop area to provide additional comfort when standing for extended durations.



KING COUNTY JOB ANALYSIS COMPLETED ON: 6/21/05  
JOB TITLE: Welder, Combination  
EMPLOYEE:  
VRC: Kyle Pletz

DOT #: 819.384-010  
CLAIM #

## 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.

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Printed name & title of VRC evaluator

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Signature of VRC evaluator

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Date

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Printed name & title of contact

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Signature of contact

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Date

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Printed name & title of employee

---

Signature of employee

---

Date

KING COUNTY JOB ANALYSIS COMPLETED ON: 6/21/05  
JOB TITLE: Welder, Combination  
EMPLOYEE:  
VRC: Kyle Pletz

DOT #: 819.384-010  
CLAIM #

### 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