

EMPLOYEE:

CLAIM #



Job Analysis Form

ALTERNATE FORMAT AVAILABLE

JOB TITLE Lineman **JOB CLASSIFICATION** Lineman

DICTIONARY OF OCCUPATIONAL TITLES (DOT) NUMBER 821.361-018

DOT TITLE Line Erector

DEPARTMENT Transportation **DIVISION** Transit

OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE 11

CONTACT'S NAME & TITLE Mark McKeown, Chief of Power

CONTACT'S PHONE 206-263-4604

ADDRESS OF WORKSITE

2255 4th Ave. S.
Seattle, WA 98134

VRC NAME Kyle Pletz

VRC NAME Jeff Casem

DATE COMPLETED 3/22/02

DATE REVISED 5/18/09

WORK HOURS

Monday through Friday, Tuesday through Saturday, Sunday through Thursday. Day (8:00am-4:30pm), Swing (4:00pm-12:00am), and Graveyard (4:00am-12:00pm) shifts exist with one 30 minute lunch break and two 15 minute breaks.

OVERTIME (Note: Overtime requirements may change at the employer's discretion)
Optional and varies depending on the season. Optional on most occasions, but can be required in emergency situations.

JOB DESCRIPTION

Perform journey level work in the construction and maintenance of the trolley overhead and underground systems. Electrical systems (750 volts DC) are energized during construction and maintenance activities. May lead others within the same trade, material workers and helpers, on a temporary basis for specific projects.

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

Completion of a line worker apprenticeship and two years of experience as a journey level line worker is required. Demonstrated ability to read, write, and follow verbal instructions is required. Ability to work as a team member. Ability to problem solve. A Washington State driver's license or alternate ability to travel throughout the County in a timely manner and during non-business hours is required. The employee is required to climb poles and work from elevated equipment. The worker is frequently required to lift objects weighing up to 50 pounds in an elevated position.

ESSENTIAL FUNCTIONS

1. Sets and guys all types of poles; assembles and fastens cross-arms, brackets, mast arms and related hardware.
2. Strings wires and cables for electrical power distribution systems and transit power circuits or control circuits.
3. Installs and maintains overhead trolley lines; tests, troubleshoots and repairs defective circuits.
4. Splices wires and cables and installs conductors in conduit or overhead wiring.
5. Trims trees in close proximity to overhead lines.
6. Installs, maintains, and repairs intersection tracks, directional, power and induction switches, sectional circuit breakers, crossovers, and other overhead trolley equipment.
7. Performs inspection, maintenance and service on the rails and switch gear.
8. Performs related work as assigned by the supervisor.

PERSONAL PROTECTIVE EQUIPMENT USED

Head protections, safety vest, gloves (high and low voltage), harness, belts, ear protection, eye protection, leather footwear, escape respirator, knee pads, and insulating blankets.

OTHER TOOLS & EQUIPMENT USED

Cable, tower truck, hoisting devices, hand tools, wood and steel poles, chain saw, cranes, shovels, digging bars, jackhammer, digger truck, auger, pole puller, spoon and spades, pry bar, ratchets, anvil, hammer, various hand tools, belt and hooks for climbing poles, man lift, ladder, various testers, high pots, shivs, blocks, torch, pumps, air monitor, locator, flag stands, signs, crimpers, heater, generators, cutters, battery cutters and ratcheting cutters.

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

Very Heavy—exerting in excess of 100 pounds of force occasionally, and/or in excess of 50 pounds of force frequently, and/or in excess of 20 pounds of force constantly to move objects.

Standing

Health Care Provider initials if restricted _____

Continuously on concrete/asphalt/wood surfaces for up to 30 minutes at a time for up to 6 hours in a work shift. Most commonly occurs while workers perform job duties in the tower truck as well as when performing safety watch, testing and inspecting duties. The employee also stands while assembling or wiring switches.

Walking

Health Care Provider initials if restricted _____

Frequently on hard surfaces for distances of 600 feet, generally 10 feet on tower, for up to 5-10 minutes at a time for up to 5.5 hours total in a work shift. Most commonly occurs while repairing, installing, or troubleshooting trolley systems when on a tower. The employee also walks when traversing between the work site and work truck as well as when performing inspections.

Sitting

Health Care Provider initials if restricted _____

Occasionally on a seat in the truck for up to 30 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs while driving to job sites in a truck.

Climbing stairs

Health Care Provider initials if restricted _____

Occasionally for up to 30 seconds at a time while climbing stairs of one flight for up to 15 minutes total in a work shift. Most commonly occurs while accessing/exiting tower on tower truck as well as when traversing within the shop.

Climbing

Health Care Provider initials if restricted _____

Occasionally on tower truck to heights of 10-12 feet for up to 1 minute at a time for up to 30 minutes total in a work shift. Most commonly occurs while entering/exiting tower of tower truck and accessing ladders. Must also be able to climb out of vaults up to 20 feet deep using a ladder. The employee also climbs poles on an emergency basis.

Balancing

Health Care Provider initials if restricted _____

Frequently to continuously on a tower truck at heights of 10-25 feet for up to 2.5-3 hours at a time for up to 5-6 hours total in a work shift. Most commonly occurs while working on the tower truck in a lift bucket performing line installations, trouble shooting, testing and maintenance.

Bending neck up

Health Care Provider initials if restricted _____

Frequently to continuously & Highly Repetitive for up to 2.5-3 hours at a time for up to 5-6 hours total in a work shift. Most commonly occurs while performing overhead work on the deck as well as inspecting lines.

Bending neck down

Health Care Provider initials if restricted _____

Frequently for up to 1 hour at a time for up to 4 hours total in a work shift. Most commonly occurs while working on hoists.

Bending/Stooping

Health Care Provider initials if restricted _____

Occasionally on concrete, asphalt and wood surfaces for up to 15 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while worker is bent forward at the waist to crank the chain hoist to raise tension on wires. Worker may perform this task for 5 minutes then rest for about 5 minutes and then repeat until the tension is set. Occasionally bend while creating a 3 to 8 foot hole by hand using spoon and spades (shovel) that are 12 to 14 feet long to break cement and create a large hole. The employee also bends or stoops when working with a partner in a hole as well as when looking over the edge of a bucket or deck rail at helpers on the ground.

Kneeling

Health Care Provider initials if restricted _____

Occasionally on concrete, asphalt and wood surfaces for up to 5 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs while working on the tower and performing installations, maintenance and testing as well as when assembling switches on the tower.

Squatting

Health Care Provider initials if restricted _____

Occasionally on hard fiberglass surfaces for up to 2 minutes at a time for up to 1-1.5 hours total in a work shift. Most commonly occurs while moving about in tower truck while performing job duties. Worker must also crouch while installing cable in vaults which may be up to 20 feet deep.

Crawling

Health Care Provider initials if restricted _____

Rare on concrete, asphalt and wood surfaces for distances of 10-20 feet for up to 2 minutes at a time for up to 10 minutes total in a work shift. Most commonly occurs while crawling under equipment while in a tower truck or when working on the deck.

Operating Controls with Feet

Health Care Provider initials if restricted _____

Occasionally to operate tower truck for 2 minutes at a time for up to 30 minutes total in a work shift while operating the controls on the tower, using the Y-35 hydraulic crimper foot pedal. On a rare to occasional basis the employee may drive for up to 30 minutes at a time for up to 1 hour total in a shift.

Reaching above shoulder height

Health Care Provider initials if restricted _____

Frequently to continuously & Highly Repetitive for up to 5 minutes at a time for up to 3-6 hours total in a work shift while working with tools and equipment above shoulder. Worker will perform this task until the tension is set on wires while reaching overhead and away from body to crank chain hoist, exerting up to 100 pounds of force to raise tension on wires. Working with high voltage lines and performing work that is 80% over head to eye level. While installing overhead hardware (cam tips), worker will perform up to 1 hour of overhead hammering with a 20-pound anvil.

Reaching at waist to shoulder height

Health Care Provider initials if restricted _____

Frequently to continuously & Highly Repetitive for up to 2 minutes at a time for up to 3-6 hours total in a work shift while handling tools in tower truck and on ground to perform many job duties. Workers reach out 4-8 times to place grips on wires and again, 4-8 times to put on hoists, then several times side to side to place tension on wires. On a rare to occasional basis the employee may drive for up to 30 minutes at a time for up to 1 hour total in a shift.

Reaching at knee to waist height

Health Care Provider initials if restricted _____

Occasionally & Highly Repetitive for a few seconds to up to 3 minutes at a time for up to 2.5 hours total in a work shift while retrieving tools and materials at lower levels as well as when shoveling and assembling switches.

Reaching at floor to knee height

Health Care Provider initials if restricted _____

Occasionally for up to 30 seconds at a time for up to 30 minutes total in a work shift while retrieving tools and material at lower levels as well as when setting up the platform 6 times per shift.

Lifting 1-10 pounds

Health Care Provider initials if restricted _____

Continuously & Highly Repetitive of tools for up to 2 minutes at a time for up to 4-6 hours total in a work shift. Most commonly occurs with weights of 8 pounds while hitting the anvil with a hammer to remove the kinks from the trolley wire, as well as the 8 pound grips while working on overhead wires and equipment as well as when using various hand tools. The employee can choose to wear a tool belt which would require lifting for up to 2-3 hours at a time for up to 4-6 hours total in a shift.

Carrying 1-10 pounds

Health Care Provider initials if restricted _____

Occasionally of personal tools for distances of up to 100 feet for 1 minute at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 8 pounds while carrying personal tools around work site. The employee can choose to wear a tool belt which would require carrying for up to 2-3 hours at a time for up to 4-6 hours total in a shift.

Lifting 11-20 pounds

Health Care Provider initials if restricted _____

Occasionally of tools and equipment for 2-10 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 20 pounds while holding an anvil overhead with trolley wire running through the top of it and hitting it with a hammer, lifting hoists, and various tools and equipment. The employee can choose to wear a tool belt which would require lifting for up to 2-3 hours at a time for up to 4-6 hours total in a shift.

Carrying 11-20 pounds

Health Care Provider initials if restricted _____

Occasionally of hoists, anvils, cutters, tools and equipment for distances of up to 100 feet for up to 1 minute at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 20 pounds while utilizing tools and equipment back and forth onto tower truck. The employee can choose to wear a tool belt which would require carrying for up to 2-3 hours at a time for up to 4-6 hours total in a shift.

Lifting 21-50 pounds

Health Care Provider initials if restricted _____

Occasionally to frequently & Highly Repetitive for up to 10-15 minutes at a time for up to 2-3 hours total in a work shift. Most commonly occurs with weights of 23-50 pounds to operate a chain saw (30 pounds) while trimming trees, move trolley hardware (up to 50 pounds), and using hoists and cutters (23 pounds) as well as to maneuver up to 50 pounds while setting poles.

Carrying 21-50 pounds

Health Care Provider initials if restricted _____

Occasionally of hoists, tools, anvil for distances of up to 100 feet for 2-3 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 30-50 pounds while setting poles and replacing trolley hardware as well as when hauling tools and materials to and from the truck.

Lifting 51-100 pounds

Health Care Provider initials if restricted _____

Occasionally of 90 pound jack hammer and switches for 1-2 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 60-80 pounds while balancing the crossovers, switches, etc. while they are being installed in the wire at 18'6" to 19'6" in the air. Help is available on most occasions for these duties.

Carrying 51-100 pounds

Health Care Provider initials if restricted _____

Occasionally of 90 pound jack hammer and switches up to 25 feet for 1 minute at a time for up to 30 minutes total in a work shift. Most commonly occurs with weights of 60-80 pounds while replacing and installing trolley hardware as well as when repetitively lifting a jackhammer for 1-2 hours at a time.

Lifting 100+ pounds

Health Care Provider initials if restricted _____

Rare of switches, bags of sand and asphalt for up to 1 minute at a time for up to 10 minutes total in a work shift. Most commonly occurs with weights of 150 to 170 pounds while pulling poles and lifting switches from the ground to the deck on the tower truck. These duties do not happen on a daily basis and help is available on most occasions for these duties.

Carrying 100+ pounds

Health Care Provider initials if restricted _____

Rare of switches, bags of sand and asphalt for distances up to 25 feet for up to 2 minutes at a time for up to 10 minutes total in a work shift. Most commonly occurs with weights of 150 to 170 pounds while loading switches and maneuvering poles. These duties do not happen on a daily basis and help is available on most occasions for these duties.

Pushing and Pulling

Health Care Provider initials if restricted _____

Frequently of chain hoists with a force of up to 80-100 pounds for up to 10-15 minutes at a time for up to 1-2 hours total in a work shift while cranking the chain hoists to raise tension on wires. Pulling up switches from ground level to tower truck with a force of 100+ pounds for distances of 14 feet, from ground level to tower truck, for 1 minute at a time for up to 5-6 minutes total in a work shift. The employee also cranks a hoist for up to 10-15 minutes at a time with up to 30 pounds of force for up to 1-2 hours total in a shift. Worker also handles cable that is up to 1 inch in diameter weighing 3 pounds per foot and may pull up to 100 pounds for up to 1 minute at a time. Cable is most commonly pulled into vaults and conduits with power winches. Cable is racked on the walls of the vaults by Employee. Cable has to be shaped and bent using wrenches and crimpers. May have to splice wires as well. On a very rare occasion the employee may need to push or pull with up to 150 pounds of force to manipulate materials.

Handling

Health Care Provider initials if restricted _____

Continuously & Highly Repetitive while grasping and torquing with anvil and hoists for up to 5-10 minutes at a time for up to 6 hours total in a work shift while pounding out kinks in wire and putting tension on wire, manipulating materials, using a chainsaw, using a hoist and using various hand tools.

Operating Controls with Hands

Health Care Provider initials if restricted _____

Occasionally for up to 2 minutes at a time for up to 30 minutes total in a work shift while operating tower truck lift controls.

Fingering

Health Care Provider initials if restricted _____

Occasionally while repairing switches of small parts for up to 2 minutes at a time for up to 2 hours total in a work shift while repairing switch mechanisms and building rebar cages.

Feeling

Health Care Provider initials if restricted _____

Frequently of material and tools for a total of 4 hours in a work shift. Most commonly occurs while feeling for hidden bolts, nuts and equipment as well as when identifying equipment malfunction and utilizing/manipulating small parts.

Talking

Health Care Provider initials if restricted _____

Occasionally for up to 2 minutes at a time with the Foreman on the ground level for up to 1-2 hours total in a work shift while obtaining instructions and plans as well as when communicating with the work partner when working on live lines.

Hearing

Health Care Provider initials if restricted _____

Continuously for up to 8 hours at a time during work shift while listening to traffic, co-workers, supervisor, and/or pedestrians while performing all job duties.

Seeing

Health Care Provider initials if restricted _____

Continuously for up to 3-4 hours at a time for up to 8 hours total in a work shift while completing tasks in tower truck, watching for trolley buses and cars, working on live lines, completing safety checks, flagging, viewing traffic signs, viewing color coded equipment, watching for job hazards and watching coworkers for safety purposes.

Working with Heightened Awareness

Health Care Provider initials if restricted _____

Continuously for up to 3-4 hours at a time for up to 8 hours total in a work shift while working on live lines and identifying potential hazards such as moving machinery and electrocution potential.

ENVIRONMENTAL FACTORS

Work is performed outdoors in all types of weather. The work is also performed in close proximity to moving traffic and high voltage wires. Work is performed on energized lines.

The noise level is

HCP Initials if Restricted

Approximately 90 decibels. The noise is caused by trucks and power tools.

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, VRC, Vocational Consultant

Printed name & title of VRC evaluator

Signature of VRC evaluator

Date

Printed name & title of contact

Signature of contact

Date

Printed name & title of employee

Signature of employee

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