

EMPLOYEE:

CLAIM #



Job Analysis Form

ALTERNATE FORMAT AVAILABLE

JOB TITLE: Line Crew Chief

JOB CLASSIFICATION: Line Crew Chief

DICTIONARY OF OCCUPATIONAL TITLES (DOT) NUMBER: 821.131-014

DOT TITLE: Line Supervisor

DEPARTMENT: Transportation

DIVISION: Transit

SECTION: Power & Facilities

OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE: 2

CONTACT'S NAME & TITLE: Corey Traylor

CONTACT'S PHONE: (206) 263-4601

ADDRESS OF WORKSITE:

2225 4th Avenue South
Seattle, WA 98134

VRC NAME: Peter Hu

DATE COMPLETED: 06/04/07

DATE REVIEWED 7/20/09

WORK HOURS:

8:00 a.m. – 4:30 p.m., Monday through Friday, 40 hours per week

OVERTIME:

Required on an emergency basis and optional in accordance with business demand.

JOB DESCRIPTION:

Plans and supervises the work of a crew consisting of journey level and non-journey level workers in the construction, maintenance, and repair of trolley overhead and underground equipment at transit-electrical facilities. Electrical systems (750 volts DC) are energized during construction and maintenance activities. May need to perform the job functions of a Lineman as staffing levels require.

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.

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JOB SPECIFIC REQUIREMENTS:

Graduation from a line worker apprenticeship program and minimum of five years of experience at the journey level performing line work, at least one year of which has been on a transit trolley overhead system. A Washington State Driver's license is required. The employee is required to climb poles, work from elevated platforms and in confined spaces. The employee must have and maintain the following licensing/certifications: Washington State Lift Truck certificate, Washington State Flagging and Traffic Control Certificate, First Aid/CPR/AED, and Forklift certification. The employee is frequently required to lift objects weighing up to 50 pounds while worker is elevated off the ground.

ESSENTIAL FUNCTIONS:

1. Provides oral and written instructions, guidance, and assistance to work crews and monitors crew work activities. Crew size averages 6 workers; however, depending on resources and tasks assigned, the crew size may change.
2. Directs and supervises the erecting of poles and wiring of overhead and underground transit electric system(s).
3. Sets and guys all types of poles; assembles and fastens cross-arms, brackets, mast arms and related hardware.
4. Strings wires and cables for electrical power distribution systems, transit power circuits and control circuits.
5. Installs and maintains overhead trolley lines; tests, troubleshoots and repairs defective circuits.
6. Splices wires and cables and installs conductors in conduit or overhead wiring.
7. Trims trees in close proximity to overhead lines.
8. Installs, maintains, and repairs intersection tracks, directional, power and induction switches, sectional circuit breakers, crossovers, power poles and other overhead trolley equipment.
9. Ensures the proper maintenance and storage of tools, materials, equipment and supplies used in line repair work.
10. Instructs workers in the proper use of tools and materials, and oversees the reporting of defective tools and equipment.
11. Performs tailboard briefings to the crew.
12. Responds to emergency calls for repairs during non-working hours, as necessary.
13. Participates in various mandatory meetings and trainings as required.

PERSONAL PROTECTIVE EQUIPMENT USED:

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

OTHER TOOLS & EQUIPMENT USED:

Cable, tower truck, County vehicles, 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, batter cutters, ratcheting cutters, computer, and telephone.

PHYSICAL DEMANDS AS JOB IS TYPICALLY PERFORMED:

Continuously = occurs 66-100% of the time

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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 _____

Continuously on cement, dirt, gravel, linoleum, carpet, wood, and uneven surfaces for up to 2 hours at a time for up to 6 hours in a work shift. Most commonly occurs while directing and supervising work crews on assignments.

Walking

Health Care Provider initials if restricted _____

Continuously on cement, dirt, gravel, linoleum, carpet, wood and uneven surfaces for distances up to 600 feet for up to 10 minutes at a time for up to 5.5 hours total in a work shift. Most commonly occurs while performing section inspections, and traversing within the shop.

Sitting

Health Care Provider initials if restricted _____

Frequently on automobile seat or chair for up to 2 hours at a time for up to 4 hours total in a work shift. Most commonly occurs while driving a County vehicle, working on equipment in low locations, and sitting at an office workstation.

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 entering/exiting tower on tower truck.

Climbing

Health Care Provider initials if restricted _____

Occasionally to heights up to 25 feet for up to 5 minutes 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 worker may also need to climb 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 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, troubleshooting, testing and maintenance.

Bending neck up

Health Care Provider initials if restricted _____

Continuously and highly repetitive for up to 3 hours at a time for up to 6 hours total in a work shift. Most commonly occurs while performing overhead work on the deck.

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, rest for 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 a bucket or deck rail at helpers on the ground.

Kneeling

Health Care Provider initials if restricted _____

Occasionally on cement, dirt, gravel, linoleum, carpet, wood and uneven surfaces for up to 5 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs while on the tower performing installations, maintenance, testing and assembling switches.

Squatting

Health Care Provider initials if restricted _____

Occasionally on cement, dirt, gravel, linoleum, carpet, wood, fiberglass and uneven surfaces for up to 2 minutes at a time for up to 1.5 hours total in a work shift. Most commonly occurs while moving about in tower truck while performing job duties. Worker must also squat while installing cable in vaults up to 20 feet deep.

Crawling

Health Care Provider initials if restricted _____

Occasionally on cement, dirt, gravel, linoleum, carpet, wood and uneven surfaces for distances up to 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 in a tower truck or on the deck.

Operating controls with feet

Health Care Provider initials if restricted _____

Frequently for up to 1 hour at a time for up to 5 hours total in a work shift. Most commonly occurs while operating controls on the tower, using the Y-35 hydraulic crimper foot pedal and operating a County vehicle.

Reaching above shoulder height

Health Care Provider initials if restricted _____

Continuously and highly repetitive for up to 5 minutes at a time for up to 6 hours total in a work shift while working with tools and equipment above shoulder level. 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. 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 _____

Continuously and highly repetitive for up to 2 minutes at a time for up to 6 hours total in a work shift while handling tools in tower truck and on the ground. Worker needs to reach out between 4-8 times to

place grips on wires and again, between 4-8 times to put on hoists, then several times side to side to place tension on wires.

Reaching at knee to waist height

Health Care Provider initials if restricted _____

Occasionally and highly repetitive for 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.

Lifting 1-10 pounds

Health Care Provider initials if restricted _____

Continuously and highly repetitive for up to 2 minutes at a time for up to 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, and using 8 pound grips while working on overhead wires and equipment.

Carrying 1-10 pounds

Health Care Provider initials if restricted _____

Occasionally for distances up to 100 feet for 10 minutes 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.

Lifting 11-20 pounds

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. 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 while working with various tools and equipment.

Carrying 11-20 pounds

Health Care Provider initials if restricted _____

Occasionally for distances up to 100 feet for up to 10 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 20 pounds while carrying tools and equipment back and forth onto tower truck.

Lifting 21-50 pounds

Health Care Provider initials if restricted _____

Frequently for up to 15 minutes at a time for up to 3 hours total in a work shift. Most commonly occurs with weights of 23-50 pounds while operating a chain saw (30 pounds) when trimming trees, moving trolley hardware (up to 50 pounds), and using hoists and cutters (23 pounds). Also must maneuver up to 50 pounds while setting poles.

Carrying 21- 50 pounds

Health Care Provider initials if restricted _____

Occasionally for distances up to 100 feet for up to 10 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, replacing trolley hardware and carrying tools and materials to and from County vehicles.

Lifting 51-100 pounds

Health Care Provider initials if restricted _____

Occasionally for up to 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 crossovers, switches, etc. while they are being installed in the wire at 18'6" to 19'6" feet in the air. Help is available, on most occasions, for these duties.

Carrying 51-100 pounds

Health Care Provider initials if restricted _____

Occasionally for distances 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 and using a jackhammer. Help is available, on most occasions, for these duties?

Lifting 100+ pounds

Health Care Provider initials if restricted _____

Occasionally 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 _____

Occasionally 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 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. Also occurs when pulling up switches from ground level to tower truck, with a force of 100+ pounds, for distances of 14 feet, for 1 minute at a time for up to 5-6 minutes total in a work shift. The worker 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. Worker racks cable on the walls of the vaults. Cable has to be shaped and bent using wrenches and crimpers. May have to splice wires as well. On a very rare occasion the worker may need to push or pull with up to 150 pounds of force to manipulate materials.

Handling

Health Care Provider initials if restricted _____

Continuously and highly repetitive while grasping and torquing with anvil and hoists for up to 10 minutes at a time, for up to 6 hours total in a work shift. Most commonly occurs 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 materials and tools, for up to 4 hours total in a work shift. Most commonly occurs while feeling for hidden bolts, nuts and equipment, as well as identifying equipment malfunction and utilizing/manipulating small parts.

Talking

Health Care Provider initials if restricted _____

Continuously for up to 15 minutes at a time for up to 6 hours total in a work shift, while conversing with co-workers and supervisors, using a 2-way radio and participating in meetings.

Hearing

Health Care Provider initials if restricted _____

Continuously for up to 2.5 hours a time for up to 7 hours total in a work shift while listening for moving machinery and vehicles, radio transmissions, and during training presentations.

Seeing

Health Care Provider initials if restricted _____

Continuously for up to 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 outside in a variety of weather conditions. The worker is exposed to high voltage wires. The worker is also exposed to high and exposed places, such as lift equipment, that positions the worker up to 75 feet above the ground.

Noise level

HCP Initials if Restricted

The noise level can fluctuate depending on the work environment. While working outdoors, the noise level is approximately 90 decibels, and is caused by power tools, and vehicles/trucks. While working in the office, the noise level is approximately 40 decibels, and is caused by office machines.

Work environment may include the following exposure(s):

HCP Initials if Restricted

Outside weather conditions:	Frequently	_____
Wet:	Occasionally	_____
Humidity/dampness:	Occasionally	_____
Fumes:	Occasionally to Frequently	_____
Odors:	Occasionally	_____
Mists:	Occasionally	_____
Gases:	Rare	_____
Moving mechanical parts:	Occasionally to Frequently	_____
Vibration:	Occasionally	_____

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Working in high, exposed places:

Frequently

High voltage?

Toxic or caustic chemicals:

Occasionally

Confined spaces:

Rare

Non-weather related temperatures below 55 degrees:

Occasionally

Non-weather related temperatures above 75 degrees:

Occasionally

POTENTIAL MODIFICATIONS TO JOB:

Lifting assistance is available for heavy objects.

Waist level tool belt provided to assist in carrying hand tools.

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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.

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

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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 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