

EMPLOYEE:

CLAIM #



Job Analysis Form

ALTERNATE FORMAT AVAILABLE

JOB TITLE Electrical Inspector

JOB CLASSIFICATION Electrical Inspector

DICTIONARY OF OCCUPATIONAL TITLES (DOT) NUMBER 168.167-034

DOT TITLE Inspector, Electrical

DEPARTMENT Transportation

DIVISION Roads, Traffic

OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE 1

CONTACT'S NAME & TITLE Lindy Jenson and Rick Thibodeau

CONTACT'S PHONE 206-205-7121 and 206-205-8153

ADDRESS OF WORKSITE

155 Monroe Ave. NE
Renton, WA 98056

VRC NAME Kyle Pletz

DATE COMPLETED 9/18/06

VRC NAME Jeff Casem

DATE REVIEWED 5/13/09

WORK HOURS

7:00am-3:30pm, Monday through Friday.

OVERTIME (Note: Overtime requirements may change at the employer's discretion)
Required, on a rare occasion in accordance with business demand.

JOB DESCRIPTION

Providing electrical construction inspection services for signal, roadway illumination, communication or other devices constructed on King County rights of way.

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

Must possess knowledge of signal, illumination, communication, electrical, underground and overhead line construction practices. Must have knowledge of traffic signal operation and maintenance practices; highway lighting and controls systems; fiber optic and communication

construction installation practices and materials; Washington State Department of Transportation Standard Plans and Specifications; Manual of Uniform Traffic Control Devices handbook and practices; American Society of Highway and Transportation Officials Standards; International Municipal Signal Standards; National and State electrical codes, standards and regulations; Occupational Safety Hazards and Precautions; and use of basic to algebraic mathematical skills. Must have skill in preparing complex technical and written material; reading and interpreting plans and specifications; coordinating with Project Engineers, contractors, and designers and other project inspector on code and code interpretation and material installation standards; using aerial man lift equipment up to 70 feet; problem solving and decision making, using personal computers and programs; using test equipment (e.g. VOM (Volt Ohm Meter) meters, locators, TDR's (Time Distance Reflectometer), Meg-ohm meters, ground resistance meter and telephone test sets).

ESSENTIAL FUNCTIONS

1. Perform electrical inspections and approve material sources form transportation projects to ensure compliance with applicable electrical and general plans, specifications, codes and regulations.
2. Issue correction notices for nonconforming conditions, offer alternatives, maintain complete logs and record and initiate problem-solving conferences with project inspectors, contractors and design professionals.
3. Coordinate inspection approval with project engineers, maintenance staff, designers or other sections and agencies and attend construction coordination meetings.
4. Provide written and verbal recommendations and improvements needed to revise construction and installations standards, plans an specifications.
5. Assist with review of preliminary plans and specifications and provide comments and/or meet with design teams in the field.
6. Locate underground conduits and wiring within the right of way for construction projects or maintenance.
7. Conduct random, scheduled and final inspections to accept installation for activation and maintenance and inspect county maintained signal for deficiencies, hazards, upgrades or revision.
8. Operate motor vehicle to visit construction sites and use aerial man lift equipment.

PERSONAL PROTECTIVE EQUIPMENT USED

Electrical Hazards safety boots, gloves (leather or insulated), ear protection, eye protection, hard hat, safety vest, harness/fall protection, face shield, reflective pants and coveralls.

OTHER TOOLS & EQUIPMENT USED

Various hand tools (such as lineman pliers, screw drivers, diagonal cutters etc.), electronic testers (such as VOM meters, locators, TDR's, Meg-ohm meters, ground resistance meter and telephone test sets etc.), shovels, torque wrench, laptop, hook, camera, County vehicle, van boom truck (non CDL), reference materials and manuals, schematics, panels, signs, bucket truck, traffic signal components, controller cabinets, service cabinets, junction boxes, conduit, wires and documents.

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 dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to 30 minutes at a time for up to 4 hours total in a work shift. Most commonly occurs while inspecting electrical applications, observing construction of electrical systems and meeting with co-workers.

Walking

Health Care Provider initials if restricted_____

Occasionally on dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to ½ mile for up to 15 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while inspecting electrical applications and observing construction of electrical systems.

Sitting

Health Care Provider initials if restricted_____

Frequently on an automobile seat and office chair for up to 1.5 hours at a time for up to 4 hours total in a work shift. Most commonly occurs while driving a County vehicle to various inspection sites or completing reports at a desk.

Climbing stairs

Health Care Provider initials if restricted_____

Rarely for up to 30 seconds at a time while climbing up to 1 flight for up to 1 minute total in a work shift. Most commonly occurs while entering or exiting job shacks or buildings downtown. Elevators are available at most locations.

Climbing

Health Care Provider initials if restricted_____

Occasionally to heights of up to 5-8 feet for up to 10 seconds at a time for up to 15 minutes total in a work shift. Most commonly occurs while getting in and out of the van (two-step) and bucket. On a rare occasion the employee may need to use a ladder to inspect an upper area where the man-lift truck cannot be used. The man-lift truck is used for anything over 8 feet in height.

Balancing

Health Care Provider initials if restricted_____

Continuously on uneven ground, booms, scissor lifts and ladders at heights of up to 70 feet for up to 2 hours at a time for up to 6 hours total in a work shift. Most commonly occurs while traversing on uneven ground and balancing on a ladder, scissor lift or man-lift truck when inspecting electrical systems.

Bending neck up

Health Care Provider initials if restricted_____

Occasionally for up to 10 minutes at a time for up to 1.5 hours total in a work shift. Most commonly occurs while inspecting fixtures, systems and equipment (such as signal heads, street lights etc.).

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 reading work orders, schematics, blueprints, wiring diagrams, manuals and drawings as well when inspecting systems and equipment (such as conduit, boxes etc.) in low locations. The employee also bends the neck down when looking at the ground when traversing uneven terrain.

Bending/Stooping

Health Care Provider initials if restricted

Occasionally & repetitive on dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to 2 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs while inspecting electrical systems and equipment. The employee can alternate bending/stooping with kneeling or squatting as preferred on most occasions.

Kneeling

Health Care Provider initials if restricted

Occasionally on dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to 15 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while inspecting systems or equipment, such as control panels and junction boxes in lower locations. The employee can alternate kneeling with bending/stooping or squatting as preferred on most occasions.

Squatting

Health Care Provider initials if restricted

Occasionally on dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to 15 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while inspecting systems or equipment, such as control panels and junction boxes in lower locations. The employee can alternate squatting with bending/stooping or kneeling as preferred on most occasions.

Crawling

Health Care Provider initials if restricted

Rarely to Occasionally on dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to 10 seconds at a time for up to 30 minutes total in a work shift. Most commonly occurs while inspecting systems or equipment, such as control panels and junction boxes in lower locations.

Operating Controls with Feet

Health Care Provider initials if restricted

Frequently for up to 1.5 hours at a time for up to 4 hours total in a work shift while driving a County vehicle.

Reaching above shoulder height

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 while opening equipment in order to inspect it as well as loading and unloading equipment out of the van.

Reaching at waist to shoulder height

Health Care Provider initials if restricted

Continuously & highly repetitive for up to 1.5 hours at a time for up to 6 hours total in a work shift while inspecting electrical systems, driving a County vehicle, performing computer duties

Reaching at knee to waist height

Health Care Provider initials if restricted _____

Occasionally for up to 15 minutes at a time for up to 2 hours total in a work shift while inspecting electrical systems, driving a County vehicle and performing computer duties.

Reaching at floor to knee height

Health Care Provider initials if restricted _____

Occasionally on dirt, gravel, cement, concrete, wet, slick, frozen and uneven ground surfaces for up to 15 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while inspecting systems or equipment, such as control panels and junction boxes in lower locations.

Lifting 1-10 pounds

Health Care Provider initials if restricted _____

Occasionally for up to 30 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs with weights of 8-10 pounds while using/holding a clipboard, plans, books, testing equipment, camera, laptop and hand tools when performing inspections.

Carrying 1-10 pounds

Health Care Provider initials if restricted _____

Occasionally for distances of up to ½ mile for up to 15 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs with weights of 8-10 pounds while using a clipboard, carrying plans and transporting hand tools when completing inspections which may require traversing uneven ground.

Lifting 11-20 pounds

Health Care Provider initials if restricted _____

Occasionally for up to 5 minutes at a time for up to 15 minutes total in a work shift. Most commonly occurs with weights of 15 pounds while manipulating multiple items such as reference materials, plans and hand tools. The employee also lifts in this range when setting up signs.

Carrying 11-20 pounds

Health Care Provider initials if restricted _____

Occasionally for distances of up to 50 feet for up to 5 minutes at a time for up to 15 minutes total in a work shift. Most commonly occurs with weights of 15 pounds while transporting multiple items such as reference materials, plans and hand tools.

Lifting 21-50 pounds

Health Care Provider initials if restricted _____

Rarely for up to 15-30 seconds at a time for up to 5 minutes total in a work shift. Most commonly occurs with weights of 25-40 pounds when manipulating lids.

Carrying 21-50 pounds

Health Care Provider initials if restricted _____

Rarely for distances of up to 50 feet for up to 1 minute at a time for up to 5 minutes total in a work shift. Most commonly occurs with weights of 30-40 pounds while transporting equipment such as multiple tools or a ladder.

Lifting 51-100 pounds

Health Care Provider initials if restricted _____

Rarely for up to 15-30 seconds at a time for up to 5 minutes total in a work shift. Most commonly occurs with weights of 80 pounds when opening and closing lids.

Pushing and Pulling

Health Care Provider initials if restricted _____

Occasionally for up to 1 minute at a time with a force of 10-50 pounds for up to 30 minutes total in a work shift while opening hinged lids, using a torque wrench, opening junction box lids, manipulating equipment and pulling wire.

Handling

Health Care Provider initials if restricted _____

Continuously & Highly Repetitive for up to 1.5 hours at a time for up to 6-7 hours total in a work shift while driving a County vehicle, using hand tools, opening lids and manipulating plans.

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 6 hours total in a work shift while driving a County vehicle, using the computer mouse and operating the bucket truck.

Fingering

Health Care Provider initials if restricted _____

Continuously & Highly Repetitive for up to 1.5 hours at a time for up to 6 hours total in a work shift while typing, dialing the telephone, using the computer mouse, writing, manipulating wire nuts, using testing equipment and manipulating documents.

Feeling

Health Care Provider initials if restricted _____

Rare for 30 seconds at a time for up to 2 minutes total in a work shift while locating obscured wires as well as identifying overheating equipment.

Talking

Health Care Provider initials if restricted _____

Continuously for up to 30 seconds at a time for up to 6 hours total in a work shift while conversing with co-workers and superiors when performing inspecting, using a 2-way radio and participating in meetings.

Hearing

Health Care Provider initials if restricted _____

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while listening for proper machine operation, radio transmissions, alarms, and moving traffic. The employee also utilizes hearing when conversing with coworkers and conducting inspections.

Seeing

Health Care Provider initials if restricted _____

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while looking for lamps in need of replacement and as well as driving a County vehicle, inspecting electrical equipment systems and machinery. The employee also uses vision when identifying color of wires and sodium lamps as well as identifying potential hazards such as electrocution potentials and moving machinery. The employee needs to be able to identify colors to ensure proper wiring and also to identify any discolored wires to identify overheating.

Working with Heightened Awareness

Health Care Provider initials if restricted _____

Continuously for up to 2.5 hours at a time for up to 7 hours total in a work shift while identifying potential dangerous situations such as electrocution potential. Heightened awareness is also used when working at heights and around moving traffic.

ENVIRONMENTAL FACTORS

Work is performed in an outdoor setting with exposure to moving automobiles, chemical fumes, adverse weather conditions and road dust. The employee can be exposed to hazardous chemicals and gasses when a mercury lamp or sodium lamp is broken. The worker is also exposed to high and exposed places such as lift equipment up to 70 feet above the ground.

The noise level is

Approximately 90 decibels. The noise is caused by diesel engines.

HCP Initials if Restricted

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Work environment may include the following exposure(s):

Outside weather: Frequently

Wet: Rare

Humidity/dampness: Rare

Fumes: Frequently

Odors: Frequently

Dusts: Frequently

Mists: Rare-Occasionally

Moving mechanical parts: Frequently

Vibration: Frequently

Working in high, exposed places: Occasionally

Toxic or caustic chemicals: Rare

Confined spaces: Rare

HCP Initials if Restricted

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POTENTIAL MODIFICATIONS TO JOB

Alternate bending/stooping, kneeling and squatting in accordance with preference.

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

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