



## Bock Consulting

### Comprehensive Vocational Assessment Report (CVAR)

Job Title	<u>Senior Construction Inspector</u>	Worker	_____
DOT Number	<u>182.267-010</u>	Claim Number	_____
Employer	<u>Port of Seattle</u>	Employer Phone #	<u>(206) 728-3616</u>
Employer Contact	<u>Thomas O'Connell, Resident Engineer</u>	Date of Analysis	<u>December 11, 2007</u>

Job of Injury   
 Previous Job   
 New Job   
 40 Hours Per Week   
 5 Days Per Week

#### Job Description, Essential Functions, Tasks and Skills:



The Port of Seattle is a municipal corporation that was created September 5, 1911 by the voters of King County. The Port of Seattle is divided into three operating divisions, plus other departments that support the divisions and the broad mission of the Port:

1) Aviation Division, 2) Economic Development Division, and 3) Seaport Division.

This job analysis is for a Senior Construction Inspector working for the Port of Seattle Engineering Department. The Engineering Department provides services across the various divisions within the Port of Seattle, therefore the worker may work at any Port of Seattle location.

The primary role of a Senior Construction Inspector is to inspect Major Works construction projects funded by the Port of Seattle to ensure that the buildings or other structures are being built per contract, within specifications and applicable codes, and are progressing as scheduled.

Note: It is estimated that a Senior Construction Inspector spends approximately 80% of the time in the field, and the other 20% of the time in an office setting preparing reports or completing other tasks. In addition, inspectors may work on more than one





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project at a time.

Essential Functions

- Conduct project/field site visits and perform physical inspections at assigned sites/projects. Inspections may include electrical and mechanical systems, and/or architectural, structural, or civil work.  
Note: Contractors must provide the access necessary for the inspectors to complete their work. For instance, if a ladder or manlift is needed to conduct an inspection, the contractor is required to provide the equipment and ensure the inspector complete the inspection in a safe manner.
- Review plans/other project documents prior to and during construction projects to gain an understanding of the project plans, schedules and specifications, as well as assess constructability and code issues prior to finalization of bid documents.
- Coordinate activities between contractors, tenants, Port of Seattle staff, and outside agencies.
- Prepare daily inspection reports, identifying issues and recommended solutions to address specific identified issues.
- Provide feedback to supervisors regarding proposed solutions to identified issues.
- Attend contractor testings to verify and witness results.
- Verify progress of outstanding work. Provide feedback to the Resident Engineer regarding potential cost and/or time issues to be used in the processing of contractor pay applications.
- Attend meetings.
- Support Resident Engineer with technical knowledge as requested.

Skills and Abilities:

- Technical knowledge of construction drawings, written contract documents, and scheduling, construction materials and methods, and building codes.
- Ability to create and maintain accurate and up-to-date project reports.
- Ability to interpret contract documents and language describing the work, and legibly mark-up/maintain current record drawings and specifications to reflect changes and as-built condition of the work in place.
- Ability to be detail oriented, organized, and manage multiple priorities simultaneously.
- Ability to communicate effectively and efficiently with a wide range of personnel internally and externally to the organization.
- Ability to work as part of a team, and also remain productive without constant direct supervision.
- Ability to use critical thinking, judgment and experience to define, analyze and resolve





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problems and issues on projects.

- Proficiency with computers, including Microsoft Office and other Port computer systems and applications.



**Machinery, Tools, Equipment, Personal Protective Equipment:**

- General office supplies, including pens, pencils, clipboard, pads of paper, file folders, binders, paperclips, boxes, staplers, document organizers, and other items.
- General office equipment, such as desks, chairs, telephones, file cabinets, shelving units, storage cabinets, photocopying machines, facsimile machines, and other items.
- Nextel telephone. Digital camera. Multimeter.
- Tape measure.
- Laser pointer.
- Windows-based computer (with accessories, including mouse) and applicable software, including Microsoft Word and Excel.
- Port of Seattle vehicles.
- Ladders. Scaffolding. Manlifts.



When in the field, an Inspector wears a safety vest/jacket, hardhat, and eye protection. Other personal protective equipment (“PPE”) includes: fall protection (required when working at heights), ear plugs, rain gear, boots, CPR kits, and personal flotation devices (required when within 6 feet of a water). The employer provides all PPE.

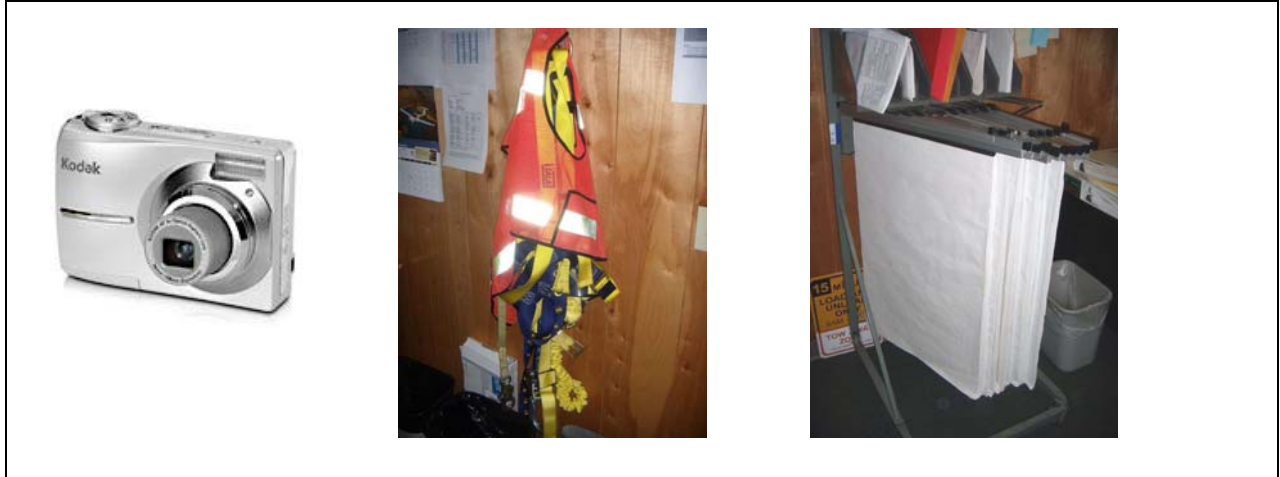


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**Education / Training:**

Minimum: High School Diploma or GED, and 6 years of combined experience in construction, general and special inspection experience. Also, 6 certificates (ICBO, WABO, AWS, ASNT, ACI, OSHA, etc.), with one being Building Inspector.

Preferred: Two years of college or vocation education in construction, and 7 to 10 years combined field inspection experience, foreman or superintendent experience, supervision and training of testing and inspection staff.

**Per the Dictionary of Occupational Titles (DOT): Construction Inspector**

Specific Vocational Preparation (SVP): 6 (One to two years)

Reasoning Skills: Apply principles of rational systems to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Interpret a variety of instructions furnished in written, oral, diagrammatic, or schedule form.

**Mathematical Skills:**

Algebra: Deal with system of real numbers; angle, and circular functions, and inverse functions; related algebraic solution of equations and inequalities; probability and statistical inference.

Geometry: Deductive geometry, planes and solids; and rectangular coordinates.

Shop math: Practical application of fractions, percentages, ratio and proportion, and practical algebra.

**Language Skills:**

Reading: Read a variety of books, manuals and reports. Read safety rules, instructions of shop tools and equipment, and methods and procedures in mechanical drawing and layout work.

Writing: Write reports with proper format, punctuation, spelling, and grammar, using all parts of speech.

Speaking: Speak before a group with poise, voice control, and confidence, using correct English and well-modulated voice.



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**PHYSICAL DEMANDS**

**N/A:** Not Applicable

**S:** Seldom (1-10% of the time)

**O:** Occasional (10-30% of the time)

**STRENGTH:**  Sedentary  Light

**F:** Frequent (30%-70% of the time)

**C:** Constant (Over 70% of the time)

**WNL:** Within Normal Limits (talking, hearing, etc.)

Medium  Heavy  Very Heavy

	Frequency	Comments
Sitting	<b>F</b>	<b>While driving a vehicle; working at a computer; processing paperwork; talking on the phone; attending meetings.</b>
Walking	<b>F</b>	<b>Approximately 80% of the worker's time is spent in the field, which can require a significant amount of walking. Project site visits may require the worker to walk over uneven terrain, up and down slopes, or through dirt and mud. The worker must also walk between the office building, vehicle, and project sites. In the office, walking would include walking to file cabinets, copier, storage shelves, or to gather supplies.</b>
Standing	<b>F</b>	<b>While in the field, worker may stand while taking pictures, taking measurements, talking with other personnel. In the office, the worker may stand to make copies or send a fax, gather supplies, or discuss issues with other staff members.</b>
Lifting (up to 15 pounds)	<b>F</b>	<b>Lifting half-sized drawings (5 lbs); full-sized drawings (up to 12 lbs); code books (up to 5 lbs); other project documentation and binders (up to 8 lbs.); clipboard, tape measure, answering desk and mobile phones, and safety equipment/PPE.</b>
Lifting (15 to 35 pounds)	<b>S</b>	<b>Lifting boxes of documents.</b>
Carrying (up to 15 pounds)	<b>F</b>	<b>Carrying half-sized drawings (5 lbs); full-sized drawings (up to 12 lbs); code books (up to 5 lbs); other project documentation and binders (up to 8 lbs.); clipboard, tape measure, answering desk and mobile phones, and safety equipment/PPE.</b>
Carrying (15 to 35 pounds)	<b>S</b>	<b>Carrying boxes of documents.</b>
Pushing/Pulling	<b>S</b>	<b>Opening/closing vehicle doors. Opening/closing file drawers.</b>
Climbing Stairs	<b>S</b>	<b>Stairs may be encountered in the field.</b>
Climbing Ladders	<b>O</b>	<b>The worker may have to climb a ladder or scaffolding when inspecting project sites.</b>
Working at Heights/Balancing	<b>O</b>	<b>The worker may have to climb a ladder or scaffolding when inspecting project sites. NOTE: Fall protection is provided and required when working at heights, or when within 6' of an edge of a retaining wall or roof edge. A personal flotation device required when within 6' of water.</b>
Bending at Waist	<b>F</b>	<b>In field: Getting into and out of vehicle, and while inspecting on project sites. In office: Pulling items from file drawers, gathering binders, documentation, and other materials, and gathering supplies stored at or below waist level.</b>



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Bending Neck	<b>C</b>	<b>While driving a vehicle; touring construction/project sites; completing inspections; working at desk; using computer; answering the phone.</b>			
Twisting at Waist	<b>O</b>	<b>In field: Getting into and out of vehicle; while inspecting (particularly while on ladder). In office: Gathering items from desk; obtaining items from drawers while seated at desk; reviewing drawings.</b>			
Crouching/Kneeling	<b>S</b>	<b>While inspecting items on project sites at or below waist level. Pulling files, documents, and supplies stored below waist level.</b>			
Stooping	<b>S</b>	<b>Getting in and out of truck. Conducting inspections in and around construction sites.</b>			
Reaching (Floor to Shoulder)	<b>O</b>	<b>In field: Driving vehicle; climbing ladders; entering manlift; using measuring tape. In office: Picking up documents and other items on the desk, filing documents, making copies, and gathering supplies.</b>			
Reaching (Over the Shoulder)	<b>S</b>	<b>In field: Pointing to items on a project site; climbing ladders; entering manlift; taking pictures. In office: Gathering items stored at or above shoulder level.</b>			
Driving	<b>S-O</b>	<b>Port vehicles are driven to construction/project sites. Worker may drive a vehicle to one site multiple times, or to various sites during a shift.</b>			
Foot Controls	<b>S-O</b>	<b>While driving truck.</b>			
Repetitive Motion	<b>N/A</b>	<b>The variety of tasks accomplished eliminates repetitive motion.</b>			
Handling/Grasping	<b>F</b>	<b>70</b>	% Pinch Grasp	<b>30</b>	% Whole Hand Grasp
Fine Finger Manipulation	<b>F</b>	<b>Writing, typing on computer keyboard, processing paperwork, taking pictures, using measuring tape, and dialing phone (desk and mobile).</b>			
Typing/Keyboarding	<b>O</b>	<b>Generating daily inspection reports and other documentation.</b>			
Writing	<b>O</b>	<b>While writing notes or drawing sketches.</b>			
Talking	<b>C</b>	<b>With supervisors, co-workers, contractors, other Port personnel, and other stakeholders.</b>			
Hearing	<b>C</b>	<b>With supervisors, co-workers, contractors, other Port personnel, and other stakeholders. Listening for signs of danger while on project sites (moving vehicles; falling objects).</b>			
Seeing	<b>C</b>	<b>Good vision and depth perception are important attributes in this position.</b>			
Normal Job Site Hazards	<b>-</b>	<b>On project sites, negotiating around moving construction equipment, walking on uneven terrain, falling objects, working at heights, and working near retaining walls or the water.</b>			
Expected Environmental Conditions	<b>-</b>	<b>Field work (est. 80% of time) would expose the worker to a wide variety of weather conditions, dust, and fumes. The other 20% of time is spent in an office environment.</b>			



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**Worker Aptitudes  
As Defined by the U.S. Department of Labor for each job listed in the  
Dictionary of Occupational Titles (“DOT”)**

Description	Rating (Highest=1)	Degree of Aptitude Ability
General Learning Ability	2	Above Average
Verbal	3	Average.
Numerical	2	Above Average.
Spatial Perception	2	Above Average.
Form Perception	3	Average.
Clerical Perception	4	Below Average.
Motor Coordination	4	Below Average.
Finger Dexterity	4	Below Average.
Manual Dexterity	4	Below Average.
Eye/Hand/Foot Coordination	2	Above Average.
Color Discrimination	5	Minimal or none.

**Worker Temperaments  
As Defined by the U.S. Department of Labor for each job listed in the Dictionary  
of Occupational Titles (“DOT”)**

- V - Performing a variety of duties, often changing from one task to another of a different nature without loss of efficiency or composure.
- T - Situations requiring the precise attainment of set limits, tolerances, or standards.
- J - Making generalizations, evaluations, or decisions based on sensory or judgmental criteria.


The above job analysis represents the requirements of a specific job based on personal observations, discussions with employer representatives, and/or workers. On occasion, practicality and feasibility prevent the direct observation and/or gathering of objective quantifiable data. For this reason, a "best estimate" may have been used when reporting physical demand frequencies.

Analysis was done on the job site?       Yes       No

Job Analysis Reviewed By:      Thomas O'Connell

Completed by Vocational Provider      Brice York, B.A., VRC

Reviewed by Supervisor:      Craig Bock, M.A., CRC

Date      December 11, 2007      Signature of Vocational Provider      





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**FOR PHYSICIAN'S USE ONLY**

- The injured worker can perform the physical activities described in the job analysis and can return to work on \_\_\_\_\_
- The injured worker can perform the physical activities described in the job analysis on a part-time basis for \_\_\_\_\_ hours per day. The worker can be expected to progress to regular duties in \_\_\_\_\_ weeks/months.
- The injured worker can perform the described job, but only with the modifications/restrictions in the attached report and/or listed below. These modifications/restrictions are (check one):
  - Temporary for \_\_\_\_\_ weeks \_\_\_\_\_ months
  - Permanent
- The injured worker cannot perform the physical activities described in the job analysis based on the physical limitations in the attached report and/or listed below. These limitations are (check one):
  - Temporary for \_\_\_\_\_ weeks \_\_\_\_\_ months
  - Permanent

COMMENTS:

Date \_\_\_\_\_ Physician's Signature \_\_\_\_\_

Physician's Name Printed \_\_\_\_\_