

Job Analysis Form

Alternate Format Available



King County

SHORT FORM FOR PRE-EMPLOYMENT PHYSICALS

Physical Required: General physical, Diabetes, BP, Vision, Back strength and lifting and Audiogram.

PATIENT NAME: _____

JOB TITLE: Engineer II

DEPARTMENT: Transportation, Airport

WORK SCHEDULE: 40/week (OT 40 hours/year)

JOB DESCRIPTION: Responsibilities include performing a broad scope of fully proficient engineering design, construction management inspection, and related responsibilities in support of a department's engineering functions. Work responsibilities are performed on an independent basis with minimal guidance and direction from higher-level positions.

WORK ENVIRONMENT: Air Field with some office.

ESSENTIAL FUNCTIONS: Review and/or prepare engineering designs for assigned work unit. Prepare plans, specifications, estimates or scope of work for public bidding/Request for Proposal process and/or internal use. Conduct bid or qualification process. Administer contracts. Plan and conduct construction, maintenance and compliance inspections. Review contractor's compliance with construction procedures; check materials for proper approval, certification with contract specifications and other contractual requirements and enforce requirements and enforce requirements of County road standards. Act as party chief for survey crews. Assist higher-level staff in coordinating work assignments. Review contract plans and provisions; oversee the work of contractors on a daily basis and monitor work progress; take corrective action for non-compliance with contract. Assist or participate in negotiation of contracts, change orders and recommendations for approval. Plan and implement monitoring programs. Prepare operations and maintenance documents and manuals. Act as Project Manager for specific task or assignment within a project such as the design of a pump. Plan, develop and implement survey methodology for projects. Prepare environmental documents; secure environmental permits; perform field investigations for assigned projects to determine the need for permits and/or the extent of the environmental review. Research, organize and assess technical information. Coordinate and oversee the review and preparation of technical environmental documents to assess impacts. Coordinate the integration of environmental specifications into plans. Develop, implement or administer project scope of work, schedule, budget, contract requirements, and the execution of plans for the design, procurement and construction phase of assigned projects. Research and develop technical specifications for new or unique products. Oversee project and discipline-appropriate testing, provide Quality Assurance/Quality Control as required; analyze and evaluate results. Interpret and evaluate codes and regulations; research and provide testimony. Issue permits and review construction plans and approve changes to plans; coordinate permitting process with other agencies. Direct the investigation of system failures and problems. Design improvements to resolve system failures and improve functionality. Develop and administer design-related systems/programs and supervise the production of drawings. Provide technical Quality assurance review of drawings and specifications. Perform complex engineering calculations.

Exposures:

- Outside weather
- Non-weather related temp below 55°
- Non-weather related temp above 75°
- Humidity/dampness
- Moving mechanical parts
- Exposed high places
- Vibration
- Toxic or caustic chemicals
- Confined spaces
- Wet
- Gasses
- Fumes
- Odors
- Dusts
- Mists
- Radiation
- Explosives
- Noise Level 80 DBL
- Other _____

Special Requirements:

- CDL
- Respirator use

**Continued on next page.

PHYSICAL DEMAND	HRS PER SHIFT
Standing	15 min – 1 hour
Walking <input type="checkbox"/> uneven terrain	15 min – 4 hours
Sitting	4 – 7 hours
Climbing stairs	15 min – 1 hour
Climbing <u>ladders</u>	15 min – 1 hour
Balancing	15 min – 1 hour
Bending/Stooping	15 min – 2 hour
Kneeling	0 – 2 hours
Crouching	0 – 2 hours
Crawling	0 – 2 hours
Foot controls	0 – 2 hours
Reaching above shoulders	0 – 2 hours
Reaching waist-shoulder	15 min – 3 hours

PHYSICAL DEMAND	HRS PER SHIFT
Reaching knee-waist	15 min – 2 hours
Reaching floor-knee	15 min – 2 hours
Lifting/Carrying 1-10#	15 min – 2 hours
Lifting/Carrying 11-20#	15 min – 1 hour
Lifting/Carrying 21-50#	15 min – 1 hour
Lifting/Carrying 51-100#	0
Lifting/Carrying 100+#	0
Handling	2 – 4 hours
Hand Controls	1 – 2 hours
Fingering <input checked="" type="checkbox"/> keyboarding	4 – 6 hours
Vision to assure safety of others	0 – 4 hours
Hearing to assure safety of others	0 – 4 hours
See Colors	0 - 4 hours

I have reviewed the following Job Analysis for the above-named employee.

Physician's Signature

Date