

# 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: Wastewater Process Engineer I

DEPARTMENT: Natural Resources, Wastewater

WORK SCHEDULE: 40/week

**JOB DESCRIPTION:** Performs a variety of entry level professional engineering duties. Incumbents will assist in engineering studies to improve unit process performance, to research new equipment and chemicals and commission new equipment for assigned wastewater treatment facility, to research process specifications to assist design engineering in developing plans and specifications for contract procurement process and assist in plant process control activities.

**WORK ENVIRONMENT:** Wastewater treatment plant.

**ESSENTIAL FUNCTIONS:** Conduct research and evaluation of special studies and projects to optimize plant processes to ensure maximum performance and cost effective operation as determined by supervisor or senior staff. Research alternatives for purchases of new equipment, operating procedures and chemicals. Inspect equipment and installation for the proper operation and conformity to contract requirements. Participate in the development of procedures and start up of new equipment. Assist in troubleshooting equipment and processes. Prepare preliminary specifications for contract requirements and work with design engineers in developing plans and specifications for equipment purchase, new processes and process improvements. Monitor consultant's work, progress payments and change orders, and assist in resolving contractual issues as determined by supervisory staff. Review engineering plans and specifications, proposed project scope of work and pre-design criteria as determined by supervisory staff. Make basic projections, tracking and chemical usage in plant processes and general plant operations. Optimize processes in terms of work hours, equipment, chemical and power costs. Prepare progress reports, project proposals and technical reports as needed.

### 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 80-100 DBL
- Other \_\_\_\_\_

### Special Requirements:

- CDL
- Respirator use

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PHYSICAL DEMAND	HRS PER SHIFT
Standing	2 – 4 hours
Walking <input checked="" type="checkbox"/> uneven terrain	2 – 4 hours
Sitting	2 – 4 hours
Climbing stairs	0 – 15 minutes
Climbing <u>ladder</u>	0 – 15 minutes
Balancing	0 – 2 hours
Bending/Stooping	0 – 2 hours
Kneeling	0 – 1 hour
Crouching	0 – 1 hour
Crawling	0 – 1 hour
Foot controls	30 min – 2 hours
Reaching above shoulders	1 – 2 hours
Reaching waist-shoulder	2 – 4 hours

PHYSICAL DEMAND	HRS PER SHIFT
Reaching knee-waist	1 – 2 hours
Reaching floor-knee	1 – 2 hours
Lifting/Carrying 1-10#	2 – 6 hours
Lifting/Carrying 11-20#	1 – 3 hours
Lifting/Carrying 21-50#	30 min – 1.5 hour
Lifting/Carrying 51-100#	0
Lifting/Carrying 100+#	0
Handling	4 – 6 hours
Hand Controls	0 – 2 hours
Fingering <input checked="" type="checkbox"/> keyboarding	4 – 5 hours
Vision to assure safety of others	0 – 6 hours
Hearing to assure safety of others	0 – 6 hours
Other	

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

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

\_\_\_\_\_  
Date