

# 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 III

DEPARTMENT: Natural Resources, Wastewater

WORK SCHEDULE: 40/week

JOB DESCRIPTION: Performs a variety of advanced level professional engineering duties. Incumbents will develop, plan and direct complex engineering and process feasibility studies to improve unit process performance, research new equipment and chemicals, and commission new equipment associated with a wastewater treatment facility, perform project management and lead responsibilities for assigned staff.

WORK ENVIRONMENT: Wastewater treatment plant.

ESSENTIAL FUNCTIONS: This classification must perform the essential duties of the Wastewater Process Engineer II and the following additional duties. Act as the technical engineering expert in process equipment, systems and processes. Develop engineering plans and specifications, prepare project scope of work and pre-design criteria to ensure compatibility with existing facilities, equipment and acceptable process control standards. Review and evaluate start-up and commissioning procedures for new equipment. Review operating procedures, chemicals and recommendations made by other staff for purchase of new equipment and make recommendations to the Process Control Supervisor. Perform lead engineering responsibilities for complex and/or special studies. Research projects to optimize existing plant processes to ensure maximum performance and cost effective operation. Act as project manager for assigned projects including the development of a project plan, scope of work and budget. Review work and provide lead direction and training for assigned staff. Develop and conduct engineering feasibility studies and projects to optimize plant processes to ensure maximum performance and cost effective operation. Serve as client representation for capital projects and perform start-up work associated with these project. Prepare progress reports, project proposals and technical reports.

### 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