

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: Industrial Engine Mechanic

DEPARTMENT: Natural Resources, Wastewater

WORK SCHEDULE: 40/week

JOB DESCRIPTION: Skilled mechanical maintenance duties at a journey-level in order to service, maintain and overhaul a variety of generating and pumping industrial engines and machinery related to a wastewater treatment plant facility, systems and processes.

WORK ENVIRONMENT: Wastewater Treatment Plant

ESSENTIAL FUNCTIONS: Troubleshoot engines, pumps, generators, compressors, boilers and related assigned equipment. Install large industrial engines, right-angle gearboxes and ancillary systems, as designed. Overhaul/rebuild industrial engines, gas and air compressors, and various other components. Perform preventive maintenance and routine service on a wide variety of industrial engines, generators, compressors and other assigned equipment. Maintain records of work performed on all engines; secure necessary tools, parts and other materials needed to complete assigned work. Update technical documents; determine appropriate inventory of spare parts for critical machinery and equipment. Review blueprints, work orders and shop drawings to facilitate coordination of maintenance efforts. Design, facilitate manufacturing, install and commission new equipment. Provide assistance to contractors and facility engineers to inspect, witness and assess contractor's installed machinery during testing and commissioning. Operate, maintain and modify low-pressure steam systems. Operate and maintain a wide variety of large and small multi-fuel engines and boilers. Install, operate, maintain and troubleshoot a variety of solid state electronic ignition and electronic and hydraulic governing systems. Operate overhead crane and forklift to move equipment under repair and/or lift equipment from stationary location to diagnose problems.

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 90 DBL
- Other _____

Special Requirements:

- CDL
- Respirator use

***Continued on next page.

PHYSICAL DEMAND	HRS PER SHIFT	PHYSICAL DEMAND	HRS PER SHIFT
Standing	4 – 6 hours	Reaching knee-waist	15 min – 2 hours
Walking <input checked="" type="checkbox"/> uneven terrain	2 – 3 hours	Reaching floor-knee	15 min – 2 hours
Sitting	1 – 3 hours	Lifting/Carrying 1-10#	2 – 6 hours
Climbing stairs	15 min – 1 hour	Lifting/Carrying 11-20#	1 – 4 hours
Climbing <u>ladder</u>	15 min – 1 hour	Lifting/Carrying 21-50#	30 min – 2 hours
Balancing	30 min – 4 hours	Lifting/Carrying 51-100#	15 min – 1 hour
Bending/Stooping	2 – 6 hours	Lifting/Carrying 100+#	0 – 15 minutes
Kneeling	45 min – 1 hour	Handling	3 – 6 hours
Crouching	15 min – 1 hour	Hand Controls	1 – 4 hours
Crawling	0 – 15 minutes	Fingering <input checked="" type="checkbox"/> keyboarding	5 min -4 hours
Foot controls	0 – 3 hours	Vision to assure safety of others	0 – 8 hours
Reaching above shoulders	5 min – 4 hours	Hearing to assure safety of others	0 – 8 hours
Reaching waist-shoulder	3 – 6 hours	Other	

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

Physician's Signature

Date