

Ontario-Montclair School District

CLASS SPECIFICATION Stationary Engineer-Nutrition Center

GENERAL PURPOSE

Under general supervision, to operate, repair and maintain mechanical cook and chill equipment utilized in food production at the District Nutrition Center; monitor and repair or adjust auxiliary equipment; and to perform related duties as required.

DISTINGUISHING CHARACTERISTICS

The Stationary Engineer - Nutrition Center maintains, monitors, repairs and adjusts equipment that provide electrical, steam or gas energy in large quantity food production of the central kitchen of the District Nutrition Center. An incumbent is licensed to operate high-pressure steam boilers and associated equipment such as steam traps, water softeners and air drier. A Stationary Engineer - Nutrition Center performs regular preventive maintenance on a variety of equipment and appliances which includes air compressors, motors, pumps, valves, and generators. An incumbent keeps logs and records on the operation and performance of equipment and appliances.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to this class. There will typically be an assigned schedule for these duties.

1. Operate maintain and perform minor repair high pressure steam boilers and steam systems; test water for balance and corrosive effects; check insulation on pipes and lines and maintain safety valves.
2. Operate, maintain and repair the condition of the deaerating feed tank and spray nozzles.
3. Operate, maintain and perform minor repairs on blow down tank for the steam boilers to eliminate water hardness, sludge and impurities.
4. Operate, maintain and repair reducing stations and check and maintain the condition of steam traps, strainers, gauges and valves.
5. Operate, maintain and repair water softeners; test water for hardness to prevent scaling and tube failure.
6. Monitor the condition of floats, switches and pumps to ensure their proper operation.
7. Operate, maintain and repair ice builders; check condition of water and piping of the system.
8. Operate, maintain and repair daily commercial hot water heaters and heat exchangers for reliability and malfunctions.
9. Perform occasional repair to kitchen appliances and equipment such as gas and electric ovens, large garbage disposals and dishwashers, pumps and kettles.
10. Read meters, gauges, or automatic devices at specified intervals to verify operations and conditions; record data such as temperatures, hours of operation, pressure, and water test analysis.
11. Operate, maintain and repair refrigerated air drier and coalester filters.
12. Maintain and perform minor repairs to air conditioning equipment.
13. Operate and maintain motors and generators.
14. Tighten fittings, repack or replace bearings, gaskets, valves and gauges using hand and power tools.
15. Maintain boiler rooms in a clean, safe and sanitary condition.
16. Operate a District vehicle.
17. Maintain and record operation and maintenance actions taken in a log book.

OTHER DUTIES

1. Assists other trades personnel as assigned.
2. Schedules and coordinates activities with other personnel and school site administrators.
3. Requisitions necessary tools, equipment and supplies.
4. Ensures the timely and accurate completion of preventative maintenance activities.
5. Maintains records related to work performed.
6. Operates light- and medium- and heavy-duty equipment.
7. Makes oral and written reports on work performed.

8. Operates a vehicle to travel to various district sites and ensures proper maintenance of district vehicles.
9. At times may be required to lead and guide the work of assigned staff.

QUALIFICATIONS

Knowledge of:

Safety devices integral to boiler and refrigeration equipment.

Journey-level knowledge of the principles, methods, techniques, tools and material used in the operation, maintenance and repair of high pressure steam generation, refrigeration and auxiliary equipment.

Principles of combustion and heat transfer.

Water testing and treatment.

Pipefitting

Operation and maintenance of various pumps, valves, motors, compressors, blowers, control switches and instruments related to boilers, refrigeration and water treatment systems.

Applicable building codes and regulations.

Appropriate safety practices and procedures.

Methods and practices of effective employee training.

Ability to:

Perform preventive maintenance on machinery and equipment utilized in large quantity food production.

Operate high-pressure steam boilers, deaerating feed tanks, reducing stations, air compressors, and other equipment and systems used in large quantity food production.

Diagnose operating problems and perform minor repairs on equipment such as boilers, air compressors, drain systems, water softeners, reducing stations on the steam system, cooling towers, water feed treatment system, and refrigeration and ventilation systems.

Perform chemical tests of boiler, cooling tower and other system fluids to determine required values are maintained; make adjustments as needed.

Read charts, gauges and instruments on machinery and equipment.

Follow oral and written directions

Maintain routine records.

Provide work direction to others as assigned.

Work independently with little direction.

Establish and maintain effective working relationships with District management, staff and others encountered in the course of work.

Read and interpret Schematic drawings and blueprints.

Read and write English at a level required for successful job performance.

Make arithmetic calculations quickly and accurately.

Understand and follow oral and written directions.

Education, Training and Experience:

Graduation from high school or G.E.D. equivalent; and three years journey-level experience operating and maintaining high pressure boilers and auxiliary equipment and at least two years journey level experience in operating and maintaining refrigeration equipment.

Any other combination of training and/or experience, which demonstrates that the applicant is likely to possess the required skills, knowledges and abilities, may be considered.

Licenses; Certificates; Special Requirements

Steam Engineer License, 500 horse power or higher issued by the City of Los Angeles, California or other agency authorized to issue such license.

A valid California Class C driver's license, a good driving record and the ability to maintain insurability under the District's vehicle insurance policy.

Upon acceptance of the District's offer of employment, new hires may be required to complete a baseline physical examination prior to the first day of employment.

WORKING ENVIRONMENT

An incumbent in this class works at the Nutrition Center facility; exposure to extreme cold in the large commercial refrigeration units to the heat of the boiler room; humidity and moisture; odors; noise levels are usually high. There are many hazards including proximity to moving, mechanical parts, exposure to electrical shock, toxic chemicals, and gases under pressure.

PHYSICAL AND MENTAL DEMANDS

The physical and mental demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, feel or operate objects, tools or controls; and reach with hands and arms. The employee frequently is required to stand and talk or hear; walk or sit; climb or balance and work up to heights of 100 feet; stoop, kneel, crouch or crawl.

The employee must regularly lift and/or move up to 50 pounds and occasionally over 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and the ability to adjust focus.

Mental Demands

While performing the duties of this class, the incumbent is regularly required to use written and oral communication skills; read and interpret data, information and documents; analyze and solve problems; use shop mathematics; observe and interpret situations; deal with changing, intensive deadlines; and interact with officials and the public.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee frequently works in extreme outside weather conditions, near moving mechanical parts, and on slippery and uneven surfaces. The employee is frequently exposed to wet or humid conditions, fumes or airborne particles, toxic or caustic chemicals, and risk of electrical shock. The noise level in the work environment is frequently loud.

BOARD APPROVED 8/15/2010