

EDITED KSAPC LISTING

CLASSIFICATION: Stationary Engineer, Correctional Facility

NOTE: Each position within this classification may perform some or all of these KSAPCs.

KSAPC Statements	
Knowledge of:	
K1.	Comprehensive knowledge of the operation, maintenance and repair of boilers and auxiliary boiler room equipment to provide the safe operation and highest efficiency possible.
K2.	Comprehensive knowledge of heating, ventilation, air conditioning, and refrigeration systems (e.g., variable air volume (VAV), air balance, etc.) in order to provide effective energy efficient comfort control.
K3.	Basic knowledge of lighting, building electrical distribution systems (single phase and multiphase), and electrical equipment (e.g., motors, motor control, transformers, breakers, and variable frequency drive (VFD), etc.) to provide safe and efficient operation of institution/facility electrical systems.
K4.	Comprehensive knowledge of controls (e.g., electrical, electronic, digital, and pneumatic) in order to provide economical and safe operation to various institution/facility systems.
K5.	Basic knowledge of water treatment for boiler room and cooling towers (e.g., residual chemical tests, water softeners, filters, piping, etc.) to provide chemical treatments which extends the expected lifespan of equipment.
K6.	Comprehensive knowledge of mechanical fundamentals used in a correctional environment in order to effectively service and repair various types of mechanical equipment.
K7.	Comprehensive knowledge of the methods, tools, materials, and equipment used in the operation, maintenance and repair of equipment, (e.g., boilers, auxiliary boiler room equipment, heating, ventilation, air conditioning, refrigeration, lighting, electrical systems, controls, water treatment, etc.), in order to maintain a safe and secure work environment.
K8.	Basic knowledge of the Department's Equal Employment Opportunity Program (EEO) objectives to promote a work environment free of harassment and discrimination.
K9.	Basic knowledge of a Supervisor's role in the Departments Equal Employment Opportunity (EEO) Program and the processes available to meet the equal employment opportunity objectives.
K10.	Basic knowledge of computers and programmable logic controllers (PLC) to allow access to software based equipment controls for programming and troubleshooting.

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Ability to:	
A1.	Follow oral directions to effectively perform assigned duties.
A2.	Follow written directions to effectively perform assigned duties.
A3.	Demonstrate a mechanical ability to a proficient degree in order to complete assigned duties.
A4.	Accurately document and maintain records, charts, graphs, and logs, in order to comply with federal, state and local requirements.
A5.	Effectively install, operate and make repairs to the various types of equipment, (e.g., boilers, auxiliary boiler room equipment, heating, ventilation, air conditioning, refrigeration, lighting, electrical systems, controls, water treatment, etc.), to ensure a safe and secure work environment.
A6.	Write clear and accurate reports to ensure compliance with federal, state and local requirements and/or departmental management directives.
A7.	Read, interpret, and work from plans, drawings, schematics, and specifications to effectively service and repair institutional/facility equipment.
A8.	Effectively coordinate, plan and work with skilled craftspersons and semiskilled workers, inmates/youthful offenders, to service and repair equipment.
A9.	Analyze situations in order to take the appropriate actions, following departmental policies and procedures to ensure a safe and secure work environment.
A10.	Effectively contribute to the Department's equal employment opportunity objectives in order to create and ensure a fair and equitable work environment.
A11.	Remain calm and focused on tasks while working in an environment of excessive noise, high-voltage electricity, high-pressure steam, chemicals, and extreme temperatures in order to safely and properly maintain the physical plant.
A12.	Supervise the conduct of inmates/youthful offenders and take appropriate action to maintain order and protect personal and state property.
A13.	Maintain courteous and professional relationships in dealing with inmates/youthful offenders, staff, and the public, to gain the cooperation necessary to maintain the physical plant, and to provide an orderly, safe and secure work environment.
A14.	Operate basic computer systems to efficiently and effectively complete assigned duties/tasks.

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KSAPC Statements

Special Physical Characteristics:

SPHC1.	Must be reasonably expected to have and maintain sufficient strength, agility, and endurance to perform during stressful (physical, mental, and emotional) situations encountered on the job without compromising their health and well-being or that of their fellow employees or that of inmates/youthful offenders to maintain a safe and secure work environment.
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