

## EDITED KSAPC LISTING

**CLASSIFICATION: Chief Engineer I, CF**

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

<b>KSAPC Statements</b>	
<b>Knowledge of:</b>	
K1.	Advanced knowledge of the methods used in the installation, maintenance and repair of Heating Ventilation and Air-conditioning (HVAC), refrigeration and related electrical/plumbing systems in order to complete a work assignment and provide direction/information.
K2.	Basic knowledge of the methods used in the installation, maintenance and repair of water treatment, wastewater and sewage systems in order to complete a work assignment and provide direction/information.
K3.	Advanced knowledge of the materials used in the installation, maintenance and repair of HVAC, refrigeration and related electrical/plumbing systems in order to complete a work assignment and provide direction/information.
K4.	Basic knowledge of the materials used in the installation, maintenance and repair of water treatment, wastewater and sewage systems in order to complete a work assignment and provide direction/information.
K5.	Advanced knowledge of the tools/equipment used in the installation, maintenance and repair of refrigeration and related electrical/plumbing systems in order to complete a work assignment and provide direction/information.
K6.	Basic knowledge of the tools/equipment used in the installation, maintenance and repair of water treatment, wastewater and sewage systems in order to complete a work assignment and provide direction/information.
K7.	Comprehensive knowledge of the Safety Orders of the California Occupational Safety and Health Administration (Cal-OSHA) relevant to heating, electrical, plumbing and other mechanical equipment to maintain the safety of the institution.
K8.	Basic knowledge of principles of effective supervision to maintain a harmonious work environment.
K9.	Basic knowledge of Department's Equal Employment Opportunity (EEO) Program objectives and a supervisor's role to ensure a workplace free of discrimination.
K10.	<b>Basic knowledge of California Code of Regulations (CCR) including Title 8, 15, 19, 22, 23 and 24 to ensure the institution's compliance.</b>
K11.	<b>Basic knowledge of the regulatory requirements/agencies that govern the physical operation of the plant (e.g., emissions, steam, water and wastewater, etc.) to ensure compliance.</b>
K12.	<b>Basic knowledge of the Building Automation System/Supervisory Control and Data Acquisition System (SCADA) to monitor/control/alarm and maintain building/plant operation.</b>
K13.	<b>Basic knowledge of fire suppression systems and other fire protection equipment (e.g., alarm systems, diesel pumps, Ansul/Halon systems, etc.) to ensure safety, reliability and compliance with the National Fire Protection Association standards (NFPA).</b>

*KSAPCs highlighted in bold text are not currently on the SPB classification specification*

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<b>KSAPC Statements</b>	
<b><i>Knowledge of:</i></b>	
K14.	<b>Basic knowledge of emergency procedures to maintain safety and security.</b>
K15.	<b>Basic knowledge of the procurement process and types of project funding to secure materials and ensure facility operation.</b>

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<b>KSAPC Statements</b>	
<b>Ability to:</b>	
A1.	Communicate effectively (e.g., verbal, written and electronic) with individuals and/or groups to provide information, instruction/direction and maintain effective working relationships.
A2.	Direct the installation, repair, operation and maintenance of mechanical systems (e.g. HVAC, refrigeration, electrical, water, sewage, plumbing, etc.) to maintain the operations of the facility.
A3.	Plan the work of skilled/semiskilled workers, inmates and youthful offenders to maintain the operations of the facility.
A4.	Direct the work of skilled/semiskilled workers, inmates and youthful offenders to maintain the operations of the facility.
A5.	Maintain accurate records to provide information and ensure compliance with departmental policies and regulatory agencies.
A6.	Prepare reports to provide information and ensure compliance with departmental policies and regulatory agencies.
A7.	React quickly and respond to emergencies appropriately by directing staff activities to maintain safety and security.
A8.	Contribute to the Departments EEO objectives by monitoring, training, documenting and taking corrective action to maintain a fair and lawful work environment.
A9.	<b>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 operations of the facility.</b>
A10.	<b>Comprehend and follow direction (e.g., verbal, written and electronic) from chain of command to complete assignments.</b>

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<b>KSAPC Statements</b>	
<b><i>Personal Characteristics:</i></b>	
PC1.	Expected to have and maintain sufficient strength, agility, and endurance to perform during stressful situations (e.g. physical, mental, and emotional) encountered on the job without compromising health and well-being or that of fellow employees or that of inmates/youthful offenders.