

EDITED KSAPC LISTING

CLASSIFICATION: SENIOR HAZARDOUS MATERIALS SPECIALIST (TECHNICAL)

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

KSAPC Statements	
Knowledge of:	
K1.	Comprehensive knowledge of basic principles of scientific research to effectively remediate hazards and comply with applicable departmental procedures, local, state and federal laws and regulations.
K2.	Advanced knowledge of chemical, biological, physical, and environmental science to comply with environmental regulations.
K3.	Comprehensive knowledge of chemical and physical characteristics of hazardous materials and their effect on human health and the environment as they relate to the chemicals being stored and used to ensure a safe working environment.
K4.	Comprehensive knowledge of chemical reactivity to ensure the health and safety of staff and inmates, the protection of the environment and property.
K5.	Comprehensive knowledge of hazardous materials and wastes and their impacts on life, environment and property to protect public health and the environment.
K6.	Comprehensive knowledge of the principles and procedures of hazardous materials management and resource recovery, including toxicology, hydrology and geology to develop effective prevention and mitigation measures.
K7.	Comprehensive knowledge of water, soil and air quality management and environmental planning to ensure compliance with regulatory guidelines.
K8.	Comprehensive knowledge of investigatory methods to determine sources of hazards/contamination, and identify the responsible party for cost recovery and remediation purposes.
K9.	Advanced knowledge of hazardous materials management activities and programs in the public and private sectors to ensure compliance with guidelines and regulatory requirements.
K10.	Comprehensive knowledge of research and literature on the health effects of hazardous substances used within the California Department of Corrections and Rehabilitation (CDCR) to protect human health and safety and the environment.
K11.	Advanced knowledge of local, state, and federal laws and regulations, legislative and regulatory processes, and programs related to hazardous materials to ensure compliance with all applicable laws and regulations.
K12.	Advanced knowledge of methods of transport, storage, recovery, treatment, disposal, and use of hazardous materials/wastes within California industry to ensure regulatory compliance.
K13.	Advanced knowledge of the environmental permitting process including local, state and federal requirements to ensure compliance with environmental regulations.
K14.	Comprehensive knowledge of concepts employed in a variety of disciplines including economics, public health, and resource management as specifically related to hazardous materials management programs.

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

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Knowledge of:	
K15.	Comprehensive knowledge of the principles involved in locating and designing proposed hazardous waste facilities for storage of hazardous substances to protect life, health, and environment.
K16.	Comprehensive knowledge of major hazardous substances used in California industry including trends in usage patterns to comply with the Illness Injury Prevention Program (IIPP).
K17.	Comprehensive knowledge of the systemic effect of hazardous material on human health within particular industries to prevent injury and provide appropriate first aid care if needed.
K18.	Advanced knowledge of California hazardous waste stream characteristics including current and future hazardous waste management options to properly manage hazardous waste streams.
K19.	Comprehensive understanding of emerging health problems associated with the use of hazardous materials in other states and overseas.
K20.	Comprehensive knowledge of success and failure of different methods employed in siting hazardous waste facilities and controlling potential contamination.
K21.	Comprehensive understanding of the programs and mechanisms for managing hazardous waste utilizing new and innovative technologies to comply with emerging regulatory requirements.
K22.	Comprehensive knowledge of toxic properties of chemicals to determine levels of Personal Protective Equipment (PPE) and to protect life, health and environment.
K23.	Comprehensive knowledge of strategies for risk management to prevent institution liability and legal implication.
K24.	Comprehensive knowledge of the National Incident Management System (NIMS)/Standardized Emergency Management System (SEMS) as it relates to hazardous materials emergency response to comply with Federal Emergency Management Agency (FEMA) standards.
K25.	Basic knowledge of CDCR policies regarding interacting with media as directed by the Public Information Officer (PIO) to maintain security of information.

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KSAPC Statements	
Ability to:	
A1.	Ability to prepare project plans and endangerment assessments as they relate to hazardous materials cleanup/site mitigation to protect public health and meet regulatory compliance.
A2.	Ability to design complex scientific methods, studies, procedures, guidelines and research projects.
A3.	Ability to develop and/or apply techniques for gathering, classifying, and interpreting a large quantity of detailed data to enhance hazardous material and waste solutions.
A4.	Ability to communicate effectively, the results and implications of studies to; regulatory agencies, management, staff, inmates and wards.
A5.	Ability to do specialized and difficult research and analytical work as it relates to hazardous material and waste issues to achieve scientific results based on multifaceted scenarios.
A6.	Ability to anticipate complex and controversial new issues in hazardous material and waste management and recommend development of programs to proactively address such issues.
A7.	Ability to act independently, promptly, and safely to expeditiously complete the task at hand.
A8.	Ability to plan, organize, and carry out hazardous materials studies or projects to ensure completion of job tasks.
A9.	Ability to participate, coordinate and/or chair task forces and meetings related to hazardous material and waste issues to enhance coordination and collaboration among various stakeholders.
A10.	Ability to develop new hazardous material control methodologies and/or procedures that can be implemented by institutions/facilities to promote uniformity and consistency in performing project tasks.
A11.	Ability to coordinate and direct the work of staff and others to mitigate the effects of an unplanned release of hazardous materials and/or waste to re-establish a safe working environment.
A12.	Ability to make oral presentations in an in-service training setting to keep staff and management informed of various environmental health and safety issues.
A13.	Ability to operate a motor vehicle with a valid Class C driver's license.
A14.	Ability to understand principles of hazard recognition and assessment to protect the public and environment and to ensure compliance with hazardous materials and waste management.
A15.	Ability to understand principles of risk assessment to protect the public and environment and to ensure compliance with hazardous materials and waste regulations.