

***Measurement Standards Specialist III,
Knowledge, Skills, Abilities, & Personal
Characteristics Statements Rating Results***

KSAPC #	Knowledge, Skills, Abilities, & Personal Characteristics Statement
K01	Knowledge of principles of algebra, geometry, statistics, trigonometry, linear equations, electronics and mechanical devices.
K02	Knowledge of physical principles involved in the operation of weighing and measuring instruments.
K03	Knowledge of analysis and application of electronic solid-state circuitry as applied to digital voltmeters, computers and electronic transducers.
K04	Knowledge of test instruments commonly used with electronic equipment.
K05	Knowledge of concepts, methodology, practices, and design principles involved in the construction, installation, operation, and inspection of mass, volumetric, and linear measuring instruments such as scales, meters, cordage measuring devices, and the calibration of instruments.
K06	Knowledge of specifications and tolerances in the California Code of Regulation for the general and specific codes as related to weights and measures applicable to measuring and weighing device instruments.
K07	Knowledge of specifications and tolerances in the California Business and Professions Code applicable to mass, volumetric and linear measuring instruments.
K08	Knowledge of mechanics, electromagnetism, thermodynamics, fluid dynamics, and optics as applied to weighing, measuring and electronic metering instruments.
K09	Knowledge of applications of computers, programmable logic controllers and microprocessors in commercial weighing and measuring devices.
K10	Knowledge of principles and techniques of supervision, project management and effective training.
K11	Knowledge of principles of effective personnel management, supervision, and training.
K14	Knowledge of department and program safety protocols when performing daily tasks and activities.
A01	Ability to communicate effectively at a level required for successful job performance.
A02	Ability to prepare clear and concise reports and correspondence, including technical writing and investigative reports.
A03	Ability to interpret and apply weights and measures laws and regulations relating to weighing and measuring instruments.

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A05	Ability to establish and maintain cooperative relations with those contacted in the work environment such as co-workers, managers and supervisors, local and state government officials, manufacturers, engineers, and the public.
A07	Ability to analyze data and draw sound conclusions.
A08	Ability to provide effective training to state and local weights and measures officials.
A09	Ability to advise manufacturers regarding compliance, suitability and applicability of new designs, models, and technical features in the market place, as pertains to weights and measures laws and regulations.
A10	Ability to develop specifications, tolerances, and test procedures for weighing and measuring and electronic metering instruments.
A13	Ability to operate a computer to model, design, and evaluate measurement processes and data.
A14	Ability to operate a scientific calculator to check measurement results, make estimations, to verify length to volume on scales, etc.
A16	Ability to repetitively lift and move 50 pound cast iron block weights and five gallon test measures filled with water.
A17	Ability to use program safety protocols while working around cranes and hoists.
PC01	Willingness to travel on the job in state and out of state using a personal vehicle, state vehicle, train, or aircraft.