



STATE OF NEVADA
DEPARTMENT OF ADMINISTRATION
Division of Human Resource Management
209 E. Musser Street, Room 101 | Carson City, Nevada 89701
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MEMORANDUM
HR#23-15

June 02, 2015

TO: Personnel Commission Members
Department Directors
Division Administrators
Agency Personnel Liaisons
Agency Personnel Representatives
Employee Representatives

FROM: Lee-Ann Easton, Administrator *Lee-Ann Easton*
Division of Human Resource Management

SUBJECT: PROPOSED CLASSIFICATION CHANGES

Attached are proposed classification changes for your information pursuant to NRS 284.160, subsections 3 through 5. If you have any comments or objections regarding these changes, please send your written notification to Peter Long at plong@admin.nv.gov no later than July 02, 2015.

If no written objections are received in this office by July 02, 2015, action will be taken to effect the changes and a report will be made to the Personnel Commission.

Attachments

NOTICE OF PROPOSED CLASSIFICATION CHANGES

Number: Posting #20-15
Posting Expires: July 02, 2015

Per NRS 284.160, the Administrator may make a change in classification without the prior approval of the Commission. The following change(s) are proposed:

CURRENT				PROPOSED			
CODE	TITLE	GRADE	EEO-4	CODE	TITLE	GRADE	EE0-4
	<i>New</i>			12.152	<i>Metrologist III</i>	<i>36</i>	<i>B</i>
1.403	Weights & Measures Metrologist	34	B	12.153	<i>Metrologist II</i>	<i>34</i>	<i>B</i>
	<i>New</i>			12.159	<i>Metrologist I</i>	<i>32</i>	<i>B</i>

Basis for Recommendation

The Nevada Department of Agriculture, Consumer Equitability Division has requested the creation of additional levels in the Weights & Measures Metrologist series in order to address the need to always have individuals trained, certified and prepared to step into the role of State Metrologist. Currently if the State Metrologist left State employment, the agency would lose their lab accreditation/certification as they have no other Metrologist able to immediately fill this role. As a result of this request, and in consultation with Subject Matter Experts from the division, Human Resource Management has recommended establishing two new levels within the series.

A Metrologist performs activities and processes involved in the effective operation of the Nevada Measurement Standards Laboratory; calibrate measures of mass, length and volume against the official State standards; and ensure that the Laboratory remains certified by the National Institute of Standards and Technology (NIST) in order to provide standard calibration services traceable to the U.S. national standards for industry, government agencies, educational institutions, business and research facilities.

It is recommended that the entry level Metrologist I be established at grade 32, two grades below the Metrologist II, which is consistent with other classifications. Incumbents in this class receive training in performing the duties assigned and progression to the journey level may occur upon meeting the minimum qualifications, satisfactory performance and with the approval of the appointing authority. A special requirement detailing the need for the applicant to take and pass the proficiency examination given by NIST as a condition of employment was added due to the proficiency test being the first level requirement by NIST to begin the certification process. Also, an informational note was added indicating that the Metrologist I must obtain the NIST certification within one year of employment or as the certification courses become available.

It is also recommended that the Metrologist II, previously titled Weights & Measures Metrologist, be amended to the journey level in the series. Incumbents will perform the full range of duties outlined and may act as lead-worker and provide field training to newly-hired personnel.

It is further recommended that the supervisory level Metrologist III be established at grade 36, two grades above the Metrologist II, which is consistent with other classifications. The incumbent will manage the Nevada Measurement Standards Laboratory, in addition to performing the full range of duties outlined in the series concept. The incumbent will oversee, develop and maintain metrology laboratory compliance to NIST standards; develop and implement program policies and procedures; schedule and oversee the testing of standards; maintain the security and verification of standards to provide a comparison for testing, weighing and measuring devices on a State wide basis; and supervise lower level Metrologist positions. An informational note was added indicating that incumbents at the Metrologist II and III must have, and maintain, certification from the NIST at the time of appointment and as a condition for continued employment.

During the review, Human Resource Management worked closely with staff from the Department of Agriculture's Consumer Equitability Division, which participated by offering recommendations and reviewing changes as the process progresses, and they support the recommended amendments.

Note: Changes, additions and/or deletions on the class specification are noted in red

The formal recommendations and specifications are on file with the Division Administrator, Human Resource Management. To view a copy in Carson City, go to 209 East Musser Street, Room 101; in Las Vegas, go to 555 East Washington Avenue, Room 1400. For more information call (775) 684-0130.

Objections to the proposed change(s) must be received in writing by July 02, 2015. Objections should be addressed to Peter Long, Deputy Division Administrator, Compensation, Classification and Recruitment, Section of the Division of Human Resource Management, 209 East Musser Street, Room 101, Carson City, Nevada 89701-4204.

POSTING DATE: June 02, 2015



STATE OF NEVADA
Department of Administration
Division of Human Resource Management

CLASS SPECIFICATION

<u>TITLE</u>	<u>GRADE</u>	<u>EEO-4</u>	<u>CODE</u>
METROLOGIST III	36	B	1.405
[WEIGHTS & MEASURES METROLOGIST] METROLOGIST II	34	B	1.403
METROLOGIST I	32	B	1.402

SERIES CONCEPT

Under general supervision, ~~[Weights and Measures]~~ **a Metrologist**~~[s manage the Nevada Measurement Standards Laboratory;]~~ **performs activities and processes involved in the effective operation of the Nevada Measurement Standards Laboratory;** calibrates measures of mass, length and volume against the official State standards; and ensures that the Laboratory remains certified by the National Institute of Standards and Technology (NIST) in order to provide standard calibration services traceable to the U.S. national standards for industry, government agencies, educational institutions, business and research facilities.

~~[Manage the metrology laboratory; schedule the testing of standards; clean, service and repair equipment; provide a clean environment; and maintain the security and verification of standards to provide a comparison for testing weighing and measuring devices on a statewide basis.]~~

Test devices used for weighing and measuring from State, federal and private agencies; receive and prepare devices to be tested; estimate testing or calibration cost for outside agencies; determine equipment, weights or containers to use for testing; calculate specifications and tolerances allowable; determine the suitability of the device; issue certificates to verify accuracy; and determine the inaccuracy of the device and make necessary adjustments or modifications as appropriate.

Advise commercial, industrial, institutional and government users of measurement standards on technical requirements pertaining to measuring systems, standards and test instrumentation; testify in court as an expert witness on calibration procedures and accuracy of standards; evaluate, study and recommend appropriate methods and procedures of measurement in special applications such as moisture content, cryogenic liquid metering, volume of compressed gases, fossil and hydrocarbon fuel heating values and material densities; apprise the NIST of deficiencies in supplied equipment, of added laboratory capabilities, and of emerging new technology needs of State laboratory programs.

Inspect, clean and maintain field equipment; check for leaks, dents and broken glass; inspect valves, fittings, piping, pumps and safety lines; and adjust as needed to facilitate equipment use in a safe and accurate manner.

Prepare reports of metrology findings; attach work sheets and calculations to copies of certificates; maintain records and files; forward original certificates to Weights and Measures office; and complete periodic activity reports to document findings and record accuracy of devices tested.

Train Weights and Measures Inspectors in the use of equipment; schedule training sessions; explain procedures; demonstrate use and operation of devices; provide instructions on maintenance and repair; and alert to common problems to provide for consistent operation and maintenance of weights and measures equipment.

Participate in national laboratory auditing programs, proficiency testing, regional measurement assurance programs and surveys; attend seminars and review scientific publications as required to keep current on new developments and techniques; maintain positive contact with industry representatives, service agencies, private corporations, inspectors and State agencies to identify needs.

Perform related duties as assigned.

METROLOGIST III	36	B	1.405
[WEIGHTS & MEASURES METROLOGIST] METROLOGIST II	34	B	1.403
METROLOGIST I	32	B	1.402

CLASS CONCEPTS

Metrologist III: Under limited supervision, the incumbent manages the Nevada Measurement Standards Laboratory, in addition to performing the full range of duties outlined in the series concept. The incumbent oversees, develops and maintains metrology laboratory compliance to NIST standards; develops and implements program policies and procedures; schedules and oversees the testing of standards; maintains the security and verification of standards to provide a comparison for testing, weighing and measuring devices on a Statewide basis; and supervises lower level Metrologist positions, and other personnel as assigned, to include performance evaluations, work performance standards, work assignment and review, hiring, training and discipline. This is the supervisory level in the series.

Metrologist II: Under general supervision, incumbents perform the full range of duties outlined in the series concept and may act as a lead-worker and provide field training to newly-hired personnel. This is the journey level in the series.

Metrologist I: Under close supervision, incumbents receive training in performing all or part of the duties outlined in the series concept. This is the trainee level in the series. Progression to the journey level may occur upon meeting minimum qualifications, satisfactory performance and with the approval of the appointing authority.

MINIMUM QUALIFICATIONS

INFORMATIONAL NOTES:

- * Incumbents at the Metrologist II and Metrologist III levels must possess and maintain certification from the National Institute of Standards and Technology (NIST) at the time of appointment and as a condition for continuing employment.
- * Incumbents at the Metrologist I level must obtain certification from the National Institute of Standards and Technology (NIST) within one year of appointment *or as certification courses become available.*

SPECIAL REQUIREMENT:

- * At the Metrologist I level, applicants must take and pass the proficiency examination given by the National Institute of Standards and Technology as a condition of employment.

METROLOGIST III

EDUCATION AND EXPERIENCE: Bachelor’s degree from an accredited college or university and 24 credits in science, mathematics, statistics, physics or engineering and three years of professional work experience in the operation, inspection, maintenance or installation of weighing and measuring instruments; OR one year as a Metrologist II in Nevada State service OR two years as a Weights & Measures Inspector II in Nevada State service; OR an equivalent combination of education and experience. (See Informational Notes)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):
 Detailed knowledge of: NIST certification standards and procedures; metrology laboratory operations; safety precautions in the handling and testing of applicable weights (up to 1000 pounds) and volume containers (up to 100 gallons). Working knowledge of: Nevada Revised Statutes pertaining to weights and measures; departmental regulations, policies, procedures and standards related to weights, measures, and adopted and recommended handbooks. General knowledge of: requirements for the competence of testing and calibration laboratories (ISO 17025); development and implementation of a Measurement Assurance

METROLOGIST III	36	B	1.405
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MINIMUM QUALIFICATIONS (cont'd)

METROLOGIST III (cont'd)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (cont'd)

Program; supervisory principles and practices; policy and procedure development; State administrative regulations and procedures. Ability to: schedule, track, assign and review work within the laboratory to meet all State and customer needs; coordinate and train subordinate personnel; and all knowledge, skills and abilities required at the lower levels.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):

Working knowledge of: State personnel, purchasing and other State administrative regulations and procedures. Ability to: develop simultaneous equations for surveillance test procedures designed to monitor the values for mass standards between calibrations; train, supervise and evaluate the performance of assigned staff; coordinate communications with industry representatives, service agencies, private corporations, inspectors and State agencies to identify needs.

METROLOGIST II

EDUCATION AND EXPERIENCE: ~~[Graduation from high school and 15 units of post secondary education]~~ *Associate's degree from an accredited college or university and 18 credits in science, mathematics, statistics, [Ø] physics or engineering and two years of professional work experience in the operation, inspection, maintenance or installation of weighing and measuring instruments; **OR** one year as a Metrologist I or Weights and Measures Inspector II in Nevada State service; **OR** an equivalent combination of education and experience. (See Informational Notes)*

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

Working knowledge of: physical science for determining densities and evaluating compounds used in weights; statistics and statistical computations; NIST certification standards and procedures; metric, troy, inch-pound, and apothecary systems of measurement; commercial weighing and measuring devices; metrology laboratory operations; calibration and verification procedures for physical standards; environmental factors that adversely affect laboratory calibration work, and how to mitigate or avoid them. **Skill in:** properly handling and using glass and metal reference standards for calibration of volume measurements. **Ability to:** apply principles of mathematics, physics and engineering mechanics to solve measurement or standards related problems in scientific, commercial or industrial environments where quantities are weighed or measured; evaluate laboratory results, sampling plans and statistical quality and quantity control data and determine the nature and type of corrective action(s) required; properly handle and use glass and metal reference standards for calibration of volume measurements; maintain accurate records and control charts; calculate buoyancy corrections for differing densities; read and use scientific publications and technical reports in the field of metrology; perform gravimetric calibrations; calibrate metal tapes; *and all knowledge, skills and abilities required at the lower level.*

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):

~~[Detailed knowledge of: safety precautions in handling and testing petroleum products; Nevada Revised Statutes pertaining to weights and measures; weights and measures regulations, and adopted and recommended handbooks. General knowledge of: personal computer operation including developing spreadsheets. Ability to: develop simultaneous equations for surveillance test procedures designed to monitor the values for mass standards between calibrations; properly handle and clean mass reference standards.] (These are identical to the Entry Level Knowledge, Skills and Abilities required for Metrologist III.)~~

METROLOGIST III	36	B	1.405
[WEIGHTS & MEASURES METROLOGIST] METROLOGIST II	34	B	1.403
METROLOGIST I	32	B	1.402

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MINIMUM QUALIFICATIONS (cont'd)

METROLOGIST I

EDUCATION AND EXPERIENCE: Graduation from high school or equivalent education and 12 credits of post-secondary education in science, mathematics, statistics, physics or engineering and one year of work experience in the operation, inspection, maintenance or installation of weighting and measuring instruments; **OR** an equivalent combination of education and experience. (See Special Requirement and Informational Notes)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):
 General knowledge of: physical science, math and electronics applied to weights and measures; basic safety procedures used when working with hazardous chemicals, flammable liquids and handling mass weights; problem solving techniques; basic mathematics; and organizational principles. Ability to: read and understand technical information; communicate effectively both verbally and in writing; prepare narrative and statistical reports; analyze problems and develop logical solutions; establish and maintain positive and cooperative working relationships with others; work independently and as part of a team; interact effectively with clients and/or staff from a variety of backgrounds; and operate a computer and related software.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):
 (These are identical to the Entry Level Knowledge, Skills and Abilities required for Metrologist II.)

This class specification is used for classification, recruitment and examination purposes. It is not to be considered a substitute for work performance standards for positions assigned to this class.

	<u>1.405</u>	1.403	<u>1.402</u>
ESTABLISHED	7/2/15UC	7/1/71	7/2/15UC
REVISED:		3/1/72	
REVISED:		7/2/75R	
		5/28/76PAC	
REVISED:		7/1/87-12P	
		10/17/86PC	
REVISED:		7/1/97P	
		6/4/96PC	
REVISED:		9/14/12RNC	
		9/14/12PC	
REVISED:		7/2/15UC	