

STATE OF OHIO (DAS)CLASSIFICATION
SPECIFICATION**CLASSIFICATION SERIES:**

Laboratory Scientist

SERIES NO.:

8329

MAJOR AGENCIES:Agriculture, Commerce, Environmental Protection Agency, Health,
Public Safety, Rehabilitation & Correction**EFFECTIVE DATE:**

06/11/2006

SERIES PURPOSE:

The purpose of the laboratory scientist occupation is to perform clinical or non-clinical testing & analysis on various samples.

At the first level, incumbents perform basic analysis, preparations, identifications, isolations, evaluations &/or tests.

At the second level, incumbents perform tests requiring specialized knowledge, training & judgment.

At the highest level, incumbents perform tests requiring specialized knowledge, training & judgment &/or adapts standard procedures.

Glossary:

Basic tests: Tests that employ simple methodology &/or produce a finite number of well-defined results &/or only require comparison of test results within established parameters.

Clinical Laboratory Improvement Amendments (CLIA): Standards (e.g., education requirements of personnel, policy requirements) that apply to laboratories performing tests for the purpose of providing health information about individuals.

CLASS TITLE

Laboratory Scientist 1

CLASS NUMBER

83291

PAY RANGE

29

EFFECTIVE

06/11/2006

CLASS CONCEPT:

The developmental level class works under direct supervision & requires considerable knowledge of a biological, chemical, natural, or physical science in order to perform basic tests.

CLASS TITLE

Laboratory Scientist 2

CLASS NUMBER

83292

PAY RANGE

31

EFFECTIVE

06/11/2006

CLASS CONCEPT:

The full performance level class works under general supervision & requires thorough knowledge of a biological, chemical, natural, or physical science in order to perform tests that require specialized knowledge, training & judgment.

CLASS TITLE

Laboratory Scientist 3

CLASS NUMBER

83293

PAY RANGE

32

EFFECTIVE

06/11/2006

CLASS CONCEPT:

The advanced level class works under general direction & requires thorough knowledge of a biological, chemical, natural, or physical science in order to perform tests that require specialized knowledge, training & judgment & adapts &/or develops standard procedures to the extent permitted by laboratory policies OR performs all of the preceding & provides daily work direction & training to others in the same unit.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Laboratory Scientist 1	83291	13	06/11/2006	29

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Performs basic laboratory tests (e.g., compares test results within established parameters; prepares daily reagents, quality control, calibration & related materials for testing that is assigned by supervisor) provides test results to appropriate individuals following agency-established guidelines.

Performs routine maintenance on equipment utilized in testing (e.g., change septum on GC); uses computer to input & process test data.

Under direction of higher-level scientists, learns higher-level functions (e.g., protocol development & implementation) & performs more complex analysis procedures.

Testifies in court & provides depositions as needed; assists in the training of new entry-level scientists & provides training to internal & external personnel on assigned testing procedures.

Maintains work-related documentation (e.g., laboratory records, test results, client/patient information) in hard copy &/or electronic form; organizes own work & cleans & maintains workspace; tracks & orders supplies.

MAJOR WORKER CHARACTERISTICS:

Knowledge of a biological, chemical, natural or physical science; laboratory tests & procedures; applicable health, safety and environmental regulations & practices. Skill in operation and maintenance of laboratory equipment; personal and laboratory computer systems. Ability to use proper research methods in gathering data; effectively communicate with others; demonstrate manual dexterity to operate equipment, handle & prepare test samples; visually evaluate samples & test results.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of associate degree in a biological, chemical, natural or physical science; 12 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

-Or completion of undergraduate core coursework in a biological, chemical, natural or physical science.

-Or 30 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

TRAINING & DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

Not applicable.

UNUSUAL WORKING CONDITIONS:

Exposed to biofluids & tissue, sharps, caustic or toxic chemicals, &/or explosives; may work varying hours.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Laboratory Scientist 2	83292	13	06/11/2006	31

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Performs tests that require specialized knowledge, training & judgment.

Adapts & validates methods from published methodology; performs quality control functions as described in protocols on assigned tests; prepares reagents, quality control & related materials for testing; provides results to appropriate individuals following agency-established guidelines; provides explanation of basic methods & procedures to clients, patients & customers.

Monitors equipment to evaluate operating efficiency & to diagnose malfunctions; performs routine maintenance. Troubleshoots & repairs equipment as needed & identifies when to contact vendor for assistance; uses computer to input & process test data.

Under direction of higher-level scientists, performs research & writing activities & learns higher-level functions (e.g., protocol development & implementation, theory, concepts & principles underlying methodologies, & advanced analysis & interpretation of test results).

Testifies in court & provides depositions as needed; provides direction & training to lower-level scientists & internal & external personnel.

Maintains work-related documentation (e.g., laboratory records, test results, client/patient information) in hard copy &/or electronic form; organizes own work & cleans & maintains workspace; tracks & orders supplies.

MAJOR WORKER CHARACTERISTICS: Knowledge of a biological, chemical, natural or physical science; laboratory tests & procedures; applicable health, safety and environmental regulations & practices. Skill in operation and maintenance of laboratory equipment; personal and laboratory computer systems. Ability to use proper research methods in gathering data; understand abstract field of study (i.e., a biological, chemical, natural or physical science); effectively communicate with others; handle sensitive inquiries from & contacts with officials & general public; demonstrate manual dexterity to operate equipment, handle & prepare test samples; visually evaluate samples & test results.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of undergraduate core coursework in a biological, chemical, natural or physical science; 12 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

-Or completion of Master of Science core program in a biological, chemical, natural or physical science.

-Or 42 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

-Or 12 mos. exp. as Laboratory Scientist 1, 83291.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

-Or positions in Department of Rehabilitation & Corrections & Department of Health must meet 1 of 5 options:

(1) Associate's degree in a medical technology from accredited college or university

OR (2) Medical Laboratory Technician (MLT) certification

OR (3) Bachelor's degree in a chemical, physical, biological or clinical laboratory science, or medical technology; 12 mos. pertinent laboratory experience or training in the specialty or subspecialty in which the individual will be assigned.

OR (4) Education &/or training equivalent to 60 semester hours, or equivalent, that included 24 semester hours of medical laboratory technology courses; 18 mos. pertinent laboratory experience commensurate with job duties to

be performed as outlined per approved position description on file.

OR (5) Education &/or training equivalent to 60 semester hours, or equivalent, that included 24 semester hours of science that included--

6 semester hours of chemistry;

6 semester hours of biology; and

12 semester hours of chemistry, biology, or medical laboratory technology in any combination; 18 mos. documented laboratory exp. in each specialty in which the individual performs high complexity testing

TRAINING & DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

In Department of Rehabilitation & Correction must obtain Medical Laboratory Technologist (MLT) certification within 6 mos. of hire. Failure to obtain &/or maintain certification is cause for removal.

UNUSUAL WORKING CONDITIONS:

Exposed to biofluids & tissue, sharps, caustic or toxic chemicals, &/or explosives; may work varying hours.

<u>CLASS TITLE</u>	<u>CLASS NUMBER</u>	<u>B. U.</u>	<u>EFFECTIVE</u>	<u>PAY RANGE</u>
Laboratory Scientist 3	83293	13	06/11/2006	32

JOB DUTIES IN ORDER OF IMPORTANCE: (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Performs tests that require specialized knowledge, training & judgment & adapts &/or develops standard procedures to the extent permitted by laboratory policies OR performs all of the preceding & provides daily work direction & training to others in the same unit.

Performs advanced interpretation of test results using understanding of theory, concepts and principles of methodology in a multi-step process; independently solves problems and mitigates factors interfering with testing; develops, improves & customizes analytical methods, equipment, formulas or processes; provides results to appropriate individuals following agency-established guidelines; provides explanation of methods and procedures requiring specialized knowledge, training & judgment to clients, patients & customers.

Performs advanced (e.g., beyond daily) equipment calibrations and quality control, test ranges and other limits determinations; monitors equipment to evaluate operating efficiency & to diagnose malfunctions; performs routine maintenance; troubleshoots & repairs equipment as needed & identifies when to contact vendor for assistance; uses computer to input & process test data.

Develops & implements standard operating procedures (SOPs) & methodology for which there are no published, established standard protocols or methods; writes technical papers & reports; uses data to prepare reports, summaries, charts &/or other documentation (e.g., prepares findings of laboratory analysis, develops & updates procedure/workstation manuals).

Testifies in court & provides depositions as needed; provides direction & training to lower-level scientists & internal & external personnel.

Maintains work-related documentation (e.g., laboratory records, test results, client/patient information) in hard copy &/or electronic form; organizes own work & cleans & maintains workspace; tracks & orders supplies.

MAJOR WORKER CHARACTERISTICS:

Knowledge of a biological, chemical, natural or physical science; laboratory tests & procedures; applicable health, safety and environmental regulations & practices. Skill in operation and maintenance of laboratory equipment; personal and laboratory computer systems. Ability to use proper research methods in gathering data; understand abstract field of study (i.e., a biological, chemical, natural or physical science); prepare meaningful, concise & accurate reports; effectively communicate with others; handle sensitive inquiries from & contacts with officials & general public; demonstrate manual dexterity to operate equipment, handle & prepare test samples; visually evaluate samples & test results.

(*)Developed after employment.

MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT:

Completion of undergraduate core coursework in a biological, chemical, natural or physical science; 24 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file;

-Or completion of Master of Science core program in a biological, chemical, natural or physical science; 12 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

-Or 54 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

-Or 12 mos. exp. as Laboratory Scientist 2, 83292.

-Or positions in Department of Rehabilitation & Correction & Department of Health must meet 1 of 6 options:

(1) Bachelor's degree in a chemical, physical, biological or clinical laboratory science, or medical technology; 24 mos. pertinent laboratory experience or training in the specialty or subspecialty in which the individual will be assigned.

OR (2) Medical Technician (MT) certification

OR (3) Master's degree in a chemical, physical, biological or clinical laboratory science, or medical technology; 12 mos. pertinent laboratory experience or training in the specialty or subspecialty in which the individual will be assigned or Medical Laboratory Technician (MLT) certification.

OR (4) Education &/or training equivalent to 60 semester hours, or equivalent, that included 24 semester hours of medical laboratory technology courses; 30 mos. pertinent laboratory experience commensurate with job duties to be performed as outlined per approved position description on file.

OR (5) Education &/or training equivalent to 60 semester hours, or equivalent, that included 24 semester hours of science that included--

6 semester hours of chemistry;

6 semester hours of biology; and

12 semester hours of chemistry, biology, or medical laboratory technology in any combination; 30 mos. documented laboratory exp. in each specialty in which the individual performs high complexity testing

OR (6) 12 mos. exp. as a Laboratory Scientist 2 (83292) in a clinical laboratory

-Or equivalent of Minimum Class Qualifications For Employment noted above

TRAINING & DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:

In Department of Rehabilitation & Correction must obtain Medical Technologist (MT) certification within 6 mos. of hire. Failure to obtain &/or maintain certification is cause for removal.

UNUSUAL WORKING CONDITIONS:

Exposed to biofluids & tissue, sharps, caustic or toxic chemicals, &/or explosives; may require travel; may work varying hours.