

MEDICAL TECHNOLOGIST 2

GENERAL DEFINITION:

This is full performance level medical technology work performing complex diagnostic laboratory tests in the analysis of human tissue and body fluids in a clinical laboratory. An employee in this class performs a variety of laboratory tests using complex methods in a variety of fields, which include clinical chemistry, microbiology, immunology, urinalysis and hematology. Work includes providing technical guidance and training to lower level technicians, troubleshooting instrumentation and testing problems, compiling information, reporting results from analysis/research findings and recommending process improvements. Work is performed under the general direction of a technical supervisor.

ALLOCATING FACTORS: (The following conditions must be met for a position to be allocated to this class)

- Employees in this class must perform full performance level medical technology work in the Public Health Medical Laboratory.

TYPICAL EXAMPLES OF WORK (ILLUSTRATIVE ONLY)

Performs a variety of complex laboratory tests in the fields of clinical chemistry, immunology, hematology, microbiology molecular microbiology and urinalysis; performs tests utilizing complex molecular testing techniques such as Polymerase Chain Reaction (PCR), Pulsed Field Gel Electrophoresis (PFGE) and Nucleic Acid Amplification (NAAT) techniques requiring use of automated equipment such as chemistry analyzers, hematology analyzers and cellcounters, flowcytometer, immunoassay analyzers and atomic absorption spectrophotometers; performs complex tests requiring use of pipettors, dilutors, spectrophotometers and microscopes; troubleshoots instruments and resolves problems with testing issues; informs supervisor of action taken to correct any instrument or testing problem.

Conducts standardized laboratory tests to identify the origins or causes of disease states by following laboratory procedures for specimen handling and test analysis; modifies test parameters such as buffer strengths, amplification and reaction times as applicable; validates, reports and maintains records of examinations conducted and patient test results; prepares reports resulting from analysis/research findings and compiles information and submits verbal and written reports to supervisor; complies with established policies and procedures for quality control, quality assurance and safety; performs and documents quality control activities, instrument and procedural calibrations and maintenance activities; advises and makes recommendations for process improvements to technical supervisor.

Prepares special culture media, solutions, reagents, standards and controls according to prescribed procedures; may be required to dissect animal heads; perform

rabies testing on animals to test for the presence of rabies and other infectious diseases; prepares slides.

Trains lower level technical personnel; provides technical guidance and assists with troubleshooting.

Assigns and reviews the work of lower level technical personnel.

Performs related work as required.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES

KNOWLEDGE OF:

- the principles, practices and methods of medical technology
- complex tests requiring use of pipettors, dilutors, spectrophotometers and microscopes
- standard laboratory instruments and equipment and the techniques and procedures concerning their use
- current practices and developments in the field of medical technology

SKILL IN:

- the care and use of laboratory equipment
- the use of the microscope and accessory equipment
- the accurate identification of bacteria and other micro-organisms

ABILITY TO:

- perform medical technology tests including Polymerase Chain Reaction (PCR), Pulse Field Gel Electrophoresis (PFGE) and Nucleic Acid Amplification (NAAT) techniques
- prepare specimens for testing and interpret results
- train lower level technical personnel
- assign and review work of lower level technical personnel
- follow oral and written instructions
- maintain accurate records
- establish and maintain effective working relationships with associates

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE (The following statement represents the minimum training and experience standards which will be used to admit or reject applicants for tests. Applications submitted by candidates for this class will be reviewed based on training and experience requirements as approved on 03/11.)

LICENSES, REGISTRATIONS AND/OR CERTIFICATIONS

Certification as a Medical Technologist by American Medical Technologists (AMT); or the American Society of Clinical Pathology (ASCP) at the time of appointment and during tenure of employment as a Medical Technologist 2.

AND

SPECIFIC EXPERIENCE:

Six (6) months of experience performing diagnostic laboratory tests in the analysis of human tissue and body fluids in a public health clinical laboratory.

PHYSICAL AND MEDICAL REQUIREMENTS:

Ability to physically perform the duties and to work in the environmental conditions required of a position in this class.

Class Established: CSC - 2/11; Ad. Board - 3/11
Latest Spec. Change: CSC - 3/13; Ad. Board - 4/13

MA