

Specification for Class of

MEDICAL TECHNOLOGIST 2

Abolished Effective July 1, 2007

Definition: Supervises technologists, technicians and/or assistants in a small laboratory or major specialized unit of a large clinical or research laboratory; may perform a wide variety of complex professional laboratory determinations.

Typical Work

Conducts biochemical and microscopic examinations of spinal fluid, smears, blood, sputum, gastric contents, tissue and excreta; assists in autopsies; preserves, describes and catalogues autopsy material;

Prepares slides of human and animal autopsy and biopsy material; prepares tissue for examination; prepares staining materials; prepares slides from sample tissues and body cells during surgical operations;

Secures specimens of blood from patients; determines blood coagulation time and sedimentation rates;

Makes solutions, prepares media and maintains growth and virulence of cultures; makes bacteriological examinations of milk, water and food products; prepares and sterilizes solutions of dextrose, saline, distilled water, metrozol and sucrose;

Uses microscope, centrifuge, autoclave, spectrophotometer, colorimeter, analytical balance, and other laboratory equipment; sharpens and polishes microtome knives;

Makes electrocardiographs, X-ray and basal metabolism tests; makes and records readings of test results;

May supervise laboratory technologists, technicians and/or assistants; keeps clinical laboratory records;

Washes and sterilizes laboratory glassware, pipettes and other laboratory equipment;

Performs other work as required.

Knowledge and Abilities

Knowledge of: laboratory principles, practices and techniques involving bacteriology, semiology, hematology, parasitology, histology, urinalysis, clinical microscopy, immunology, organic and biochemistry, clinical and pathological laboratory tests; laboratory equipment, supplies and reagents; report preparation.

Ability to: use laboratory equipment and techniques; sharpen and polish microtome knives; understand and follow complex written and oral directions, formulae and charts; prepare clear and concise reports; maintain cooperative working relations with others; distinguish colors; perform work with a microscope for extended periods of time; supervise professional and technical laboratory personnel.

Minimum Qualifications

A Bachelor's degree from an accredited college in medical technology, microbiology or chemistry with at least 16 semester hours in chemistry and 16 semester hours in biology including a course in bacteriology.

OR

Three years (90 semester hours) with a major in medical technology, microbiology or chemistry with at least 16 semester hours in chemistry and 16 semester hours in biology including a course in bacteriology.

Certification by American Society of Clinical Pathologists; or, National Certification Agency of Clinical Laboratory Scientists; or, International Society of Clinical Laboratory Technicians; or American Medical Technologists and one additional year of professional experience as a medical technologist.

New Class

Effective January 1, 1968

Revised April 12, 1971

Revises minimum qualifications

Revised March 13, 1981

Revises minimum qualifications