

Appendix 1

(school and department names)							
Medical Technologist Internship Certificate							
Name		Sex		Birth date	MM/DD/YYYY	National ID No.	
Subject	Details						Minimum Duration
Clinical biochemistry	<ol style="list-style-type: none"> Lectures: introduction to work procedures, specimen taking procedures, specimen treatment, introduction to biochemistry instruments and examination types, how biochemistry instruments work and how they are operated, computer-aided examinations, biochemistry quality control, result verification and report producing, and treatment of abnormal and critical values. Hands-on sessions: autoanalyzer operation (including calibration), identification and treatment of pre-analysis abnormal specimen, assessment of external and internal quality control, post-analysis result verification and interpretation, carbohydrates, lipid profiles, cardiac markers, renal function tests, liver function tests, hormone tests, blood gas tests. 						2 weeks (80 hours)
Clinical microbiology	<ol style="list-style-type: none"> Lectures: specimen procedures, specimen collecting, examination types and how they work, P2 Lab bio safety, biochemistry principles, how biochemistry instruments work and how they are operated, quality control, result verification and report producing, treatment of abnormal and critical values. Hands-on sessions: smearing procedures, staining and staining & clinical microscopy, AFS stain interpretation, aerobic bacteria culture and identification, anaerobic bacteria culture and identification, brewer's yeast identification, drug sensitivity test, completion of specimen collection, inoculation and follow-up culture and result interpretation. 						3 weeks (120 hours)
Clinical hematology	<ol style="list-style-type: none"> Lectures: introduction to work procedures, examination types and how they work, how biochemistry instruments work and how they are operated, blood smearing, blood smearing instruction, result verification and report producing, blood quality control, treatment of abnormal and critical values. Hands-on sessions: sectioning and staining, blood smear interpretation, treatment of abnormal and critical values, CBC, Hemostasis (PT, APTT), WBC classification, RBC morphology. 						2 weeks (80 hours)
Clinical blood	1. Lectures: introduction to work procedures, examination						1 week

banking	<p>types and how they work, how biochemistry instruments work and how they are operated, blood preparation procedures, blood supply procedures, blood bank quality control, blood bank inventory management, blood transfusion response survey.</p> <p>2. Hands-on sessions: ABO typing, Rh typing, Antibody screening, Cross-matching test, blood transfusion response survey and analysis.</p>	(40 hours)
Clinical microscopy	<p>1. Lectures: clinical microscopy introduction to work procedures, specimen taking procedures, specimen treatment, examination types and how they work, how biochemistry instruments work and how they are operated (including microscope), clinical microscopy quality control, result verification and report producing, treatment of abnormal and critical values.</p> <p>2. Hands-on sessions: Urine routine/urine sediment, pregnancy test, stool routine/occult blood, parasite ova, CSF routine, body fluid routine, semen analysis, blood collecting.</p>	3 week (120 hours)
Clinical serology & immunology	<p>1. Lectures: introduction to work procedures, specimen taking procedures, specimen treatment, examination types and how they work, how biochemistry instruments work and how they are operated, result verification and report producing, quality control, treatment of abnormal and critical values.</p> <p>2. Hands-on sessions: microorganism antigen rapid test, assessment of external and internal quality control, syphilis serum test, microorganism serum test, virus serum test, autoantibody and serum protein test.</p>	2 weeks (80 hours)
Clinical physiology	<p>1. Lectures: introduction to work procedures, examination types and how they work, how biochemistry instruments work and how they are operated, electrocardiography, pulmonary function test, others (including electromyogram, electroencephalogram, and ultrasonic), and introduction to first aid.</p> <p>2. Hands-on sessions: electrocardiography, pulmonary function test, others (including electromyogram, electroencephalogram, and ultrasonic), and CPR.</p>	2 weeks (80 hours)
Clinical histopathologic & cytologic diagnosis	<p>1. Lectures: introduction to work procedures, cell staining, tissue sectioning and cell smearing & staining methods, cell specimen interpretation, special staining procedures.</p> <p>2. Hands-on sessions: tissue paraffin section, staining, non-gynecologic and gynecologic smearing and staining, special staining observation, normal and abnormal observations.</p>	1 week (40 hours)
Molecular	1. Lectures: specimen treatment procedures, specimen taking	1 week

diagnosis in medicine	procedures, examinations and how they work, result verification and report producing, treatment of abnormal results, cellular examination and quality control. 2. Hands-on sessions: nucleic acid extraction, PCR operation and interpretation.	(40 hours)
<p>This is to certify that the applicant has met the requirements for the length of internship period totaling at least 20 weeks (800 hours) and has passed all internship subjects.</p> <p style="text-align: center;">President: (signature or seal)</p> <p>(school seal)</p> <p style="text-align: center;">Department (Division) Chair: (signature or seal)</p> <p style="text-align: center;">Date: ____/____/____ (MM/DD/YYYY)</p>		
<p>Note:</p> <ol style="list-style-type: none"> 1. This certificate must be issued by the school based on actual facts. The school shall be responsible for all information stated above. 2. This certificate is only for the applicant's use for the registration for Senior Professional and Technical Examination for Medical Technologists. 		