

BARTON COUNTY COMMUNITY COLLEGE
MEDICAL LABORATORY TECHNOLOGY PROGRAM
Essential Skills Checklist

Please check each skill or procedure that your laboratory will be able to provide the MLT student as a cooperating laboratory or clinical affiliate.

First year MLT courses

PHLEBOTOMY

- Specimen collection by venipuncture
- Specimen collection by skin puncture
- Specimen processing

UA

- Routine QC of reagents and equipment
- Safety
- Routine urinalysis: physical, chemical, and microscopic (perform as many normal and abnormal as possible)
- Urine /Serum pregnancy tests
- Occult blood on stool
- Body fluids
 - CSF
 - Synovial fluid
 - Amniotic fluid
 - Seminal fluid
 - Other: (please specify) _____

HEMATOLOGY/COAGULATION

- Peripheral smears: evaluation of WBC, RBC & platelet morphology
- Polychromatic stain
- Manual WBC count
- Manual platelet count
- Reticulocyte count
- Erythrocyte sedimentation rate
- Operation, quality control, routine maintenance and basic troubleshooting for **routine hematology analyzer**
- Operation, quality control, routine maintenance and basic troubleshooting for **routine coagulation analyzer**
 - Protine with INR
 - APTT
 - Fibrinogen
- FDP or D-Dimer
- Routine quality control of reagents and equipment

IMMUNOLOGY/SEROLOGY

- Routine quality control of reagents and equipment
- Safety
- Agglutination
- Titrations
- Syphilis Testing
- Other (please specify): _____

Second year MLT courses

BLOOD BANK

- Method:** ___ tube ___ gel
- ABO, Rh including weak D
- Antibody screen
- Crossmatch, immediate spin & complete
- Direct antiglobulin test
- Issue of product for transfusion
- Cord blood testing: ABO, Rh, DAT
- Routine quality control of reagents and equipment

CHEMISTRY

- Operation, quality control, routine maintenance and basic troubleshooting for **routine chemistry analyzer**
- Operation, quality control, routine maintenance and basic troubleshooting for **immunochemistry analyzer**
- Operation, quality control, routine maintenance and basic troubleshooting for routine **blood gas analyzer**
- Routine quality control of reagents and equipment

MICROBIOLOGY

- Routine QC of reagents and equipment
- Safety
- Gram stain (preparation, interpretation, and performance)
 - direct
 - from culture
- Culture setup and interpretation (colony morphology, Gram stain, routine media & set up, interpretation)
 - Blood
 - Urine
 - Stool
 - Respiratory (upper, lower)
 - Genital
 - CSF and other body fluids
 - Wound
- Identification of the following organisms:
 - Staph aureus
 - Coagulase negative staph
 - S. pyogenes
 - S. agalactiae
 - E. faecalis
 - S. pneumoniae
 - E. coli
 - Kleb pneumo
 - Proteus mirabilis
 - Ent cloacae
 - Salmonella
 - Shigella
 - Bacillus (not anthracis)

- Corynebacterium spp.
- Pseudomonas aeruginosa
- H. influenza
- Campylobacter jejuni
- N. gonorrhoeae
- N. meningitis

Automated identification (please list): _____

Antibiotic susceptibility testing

Automated panels

Kirby-Bauer

Other(please list) _____

Anaerobes (to what level)

collect and send

ID only

ID and suscp.

Parasitology (to what level)

collect and send

ID (wet mount, sedimentation, perm)

ID serologically

Mycology (to what level)

collect and send

ID (culture)

ID (serologically)

Mycobacteria (to what level)

collect and send

ID (cult)

ID and susc

Name of Clinical Laboratory

Signature of Lab Director

Date