NHA Certified Medical Laboratory Assistant (CMLA) Test Plan:

1. The student will learn how a laboratory is staffed and the role of the medical laboratory assistant.

2. The student will demonstrate understanding of laboratory safety including: OSHA; Universal precautions; hand washing; and the use of gloves.

3. The student will learn the appropriate way to dispose of sharps and non-sharps medical waste.

4. The student will demonstrate understanding of the chain of infection.

5. The student will be able to properly set up Medical laboratory equipment.

6. The student will learn proper use and maintenance of laboratory equipment, i.e., microscopes, centrifuge, autoclave and auto analyzers.
7. The student will become familiar with different quality control protocols:

   a. Pre-testing activities

   b. Testing activities

   c. Specimen collection, transport and preservation

   d. Reporting of test results

8. The student will become familiar with blood collection tubes, types, additives and tests.

9. The student will gain a broader understanding of medical terminology and laboratory abbreviations.

10. The student will demonstrate understanding of CLIA88 and classification of laboratory testing. (Category I; II and III tests.)

11. The student will demonstrate ability to perform the following main tests in the laboratory

   a. Urinalysis – three part routine UA; sedi-stain technique

   b. Hematology – CBC; Blood smear; Wright stain; hemoglobin measurement; ESR

   c. Coagulation theory – PT and PTT

   d. Microbiology – Bacteria; virus; fungi; protozoa; parasites; Gram stain technique; culture and sensitivity

   e. Chemistry – profiles or panels; glucose; electrolytes; lipids; enzymes; drug testing and pregnancy testing.

   f. Immunology and immunohematology – antigen; antibody reaction; agglutination. The concept of Blood typing and cross matching.

12. The student will become familiar with the identification system used by immunohematology department

13. The student will demonstrate understanding of the patient's bill of rights; informed consent; disclosure of lab test results.

14. The student will demonstrate understanding of the theory of Medical Laboratory Assistant by scoring a minimum of 70% on the National Certification written exam.

Total Exam Time Allowed: 2 Hours 10 minutes
Total Number of Questions on Examination: 125 multiple choice items