

Dakota County Technical College

MDAS 1223: Laboratory Skills II

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course builds on Laboratory Skills I using all the skills learned in that course and adding complete urinalysis and more advanced hematology. A large part of this course will focus on microscopic analysis of urine and blood. The end of the course will simulate the operation of a POL from specimen collection to result reporting of all testing learned in Laboratory Skills I and II. Prerequisite: MDAS1122

B. COURSE EFFECTIVE DATES: 03/29/2010 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. apply quality control/assurance
2. categorize urine sediment components
3. compare specific gravity techniques
4. describe automated urinalysis principle
5. describe reagent strip principles
6. maintain testing records
7. perform automated urine strip analysis
8. perform fecal occult blood test
9. perform manual urine strip analysis
10. perform microscopic urinalysis
11. perform urine confirmatory testing
12. recognize abnormal microscopic results
13. recognize urine sediment components
14. relate microscopic/macrosopic results
15. utilize safety regulation
16. describe coagulation tests
17. diagram urine formation
18. explain urine collection techniques
19. perform physical urine examination
20. recall urinary tract anatomy
21. describe the function of the formed elements of the blood
22. evaluate hemoglobin results
23. evaluate microhematocrit results
24. interpret coagulation tests
25. name the formed elements of the blood
26. perform INR
27. perform hemoglobins
28. perform microhermatocrits
29. recognize normal values for the formed elements of the blood
30. utilize flow sheet in reporting INRs
31. analyze charts and/or tables in the interpretation of lab results
32. complete patient test report
33. coordinate complete patient testing
34. describe cell maturation morphology
35. draw appropriate specimens
36. evaluate sedimentation rate results
37. maintain lab test results using flow sheets
38. perform erythrocyte sedimentation rate
39. prepare blood smears
40. prepare specimens for send out
41. recognize RBC indices
42. recognize staining error/artifacts
43. report cell estimates
44. stain blood smears

45. apply quality control/assurance
46. describe cardiac cycle
47. describe holter monitor need
48. display patient empathy
49. display sensitivity for patient modesty during ECG
50. maintain ECG equipment
51. mount ECG tracing
52. perform ECG
53. perform rhythm strip
54. prepare ECG patient
55. recognize ECG artifacts/interference

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted