Common Course Outline
ANET 202
Anesthesia Technology Equipment I
4 Credits

Community College of Baltimore County

Description

ANET 202 – Anesthesia Technology Equipment I provides an introduction to the theoretical knowledge of the functions of the anesthesia machine. This course also introduces the student to use of ancillary equipment including set-up, maintenance and troubleshooting; provides the opportunity for hands-on experience with equipment and simulated patient experiences.

4 Credits: 3 lecture hours, 3 laboratory hours

Prerequisite: Acceptance into the Anesthesia Technology program.

Overall Course Objectives

Upon completion of this course students will be able to:
1. explain the function of anesthesia equipment, its set-up and maintenance;
2. explain the basic use of anesthesia equipment in relation to concepts from the biological sciences;
3. demonstrate the proper set-up of anesthesia equipment;
4. demonstrate the maintenance process of anesthesia equipment;
5. demonstrate the proper use of equipment in simulated experiences;
6. identify what equipment is used for specific procedures;
7. demonstrate critical thinking in problem solving malfunction of anesthesia equipment;
8. demonstrate proper application of warming and cooling devices;
9. demonstrate use of portable laboratory equipment; and
10. apply didactic knowledge of use of appropriate airway equipment in a simulated experience.

Major Topics
    I.   Airway Equipment
            A. Usage
            B. Maintenance
    II.   Anesthesia Machine
            A. Mechanical Ventilation
            B. Scavenging Systems
            C. Usage
    III.   Hemodynamic Monitoring
            A. Usage
            B. Maintenance

IV.   Patient Warming and Cooling Devices
- A. Usage
- B. Maintenance

V.   Malignant Hyperthermia Cart
- A. Usage
- B. Maintenance
- C. Troubleshooting

VI.   Peripheral Nerve Block Equipment
- A. Usage
- B. Maintenance

VII.   Portable Laboratory Equipment
- A. Usage
- B. Maintenance

Course Requirements

An overall grade of C (70%) or higher is required for satisfactory completion of the course.

The course will contain a minimum of two simulated laboratory experiences.

Grading procedures will be determined by the course faculty members but will include the following:

Grading/Exams:
- A minimum of three theory examinations
- A minimum of two graded skills tests
- A minimum of four quizzes

Written Assignments: Students are required to utilize appropriate academic resources.
- Minimum of one writing assignment such as: anesthesia individualized care plan or topic related to course.
- Citations are based on the American Psychological Association (APA) format.