MOHAWK VALLEY COMMUNITY COLLEGE, UTICA-ROME, NY

Surgical Technology

COURSE OUTLINE

1. COURSE DESCRIPTION:

**ST130 Surgical Technology & Sterile Processing Fundamentals** C-3, CR-3

This course introduces students to the functions and responsibilities of surgical technologists and sterile processing technicians. Topics include supply and equipment preparation for surgery and the safe usage, care, decontamination and sterilization of surgical instruments. Students are familiarized with the structure and design of the operating room as well as operating room safety precautions, infection control standards, healthcare law, and professional ethics.

**Prerequisites:** None.

**Corequisites:** ST120 Surgical Instrumentation, HM100 Medical Terminology for Health Professionals, and BI216 Human Anatomy & Physiology I

1. STUDENT LEARNING OUTCOMES

**Upon completion of this course the student will be able to:**

1. Interpret the job description for a surgical technologist and other members of the surgical team.
2. Identify hospital departments that relate to the surgical suite in providing quality patient care.
3. Explain the principles of effective communication, teamwork, and leadership in the surgical setting.
4. Discuss laws, ethics, and Surgical Conscience as it relates to surgical technologist and healthcare providers.
5. Discuss various healthcare related agencies, how they differ from each other, and their impact on health care delivery.
6. Demonstrate the principles and practice of asepsis and sterile technique.
7. Identify environmental factors which contribute to the safety of the surgical patient and team members.
8. Verbalize the terms and process of infection, infection control, sterilization, and disinfection.
9. MAJOR TOPICS:
10. The Health Care Facility
    1. The Perioperative Environment
    2. Health Care Facility Departments and Functions
11. Health Care Administration Disaster Preparedness and Response
    1. Classification and Definition of Disasters
    2. Ethical Dilemmas in Disaster
12. Environmental Hazards
    1. Risk and Safety
    2. Chemical Risks
    3. Biological Risks
13. Microbes and the Process of Infection
    1. Classification of Organisms
    2. Tools for Identifying Microbes
    3. The process of Infection
    4. Microorganisms and the diseases they cause.
14. Communication and teamwork
    1. Professional Communication Skills
    2. Stressors in the Perioperative Environment
    3. Teamwork
15. Law, Documentation, and Professional Ethics
    1. Law and the Surgical Technologist
    2. Institutional Standards and Policy
    3. Legal Doctrines and Documentation
    4. Patients’ Rights
16. Physics and Information Technology
    1. Physics
    2. Information Technology
17. The Principles and Practice of Aseptic Technique
    1. Standards and Recommendations
    2. Personal Protective Equipment
18. Decontamination, Sterilization, and Disinfection
    1. Standards and Regulations
    2. The Principles of Reprocessing
    3. Decontamination
    4. Sterilization
19. Handling and Storage of Packages
    1. Proper handling temperatures of sterilized items
    2. Ideal conditions in the storage area
    3. Recall and reporting processes.