

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: CSP 205

Credits: 1

Course Title: Intermediate Central Sterile Services

Course Description: Prepares the student for point-of-use processing, immediate-use steam sterilization, and high-heat and low-heat sterilization methods. Emphasizes proper procedures involved in transporting sterile goods through facilities and between various clinical sites and quality assurance to ensure customer satisfaction and safety, records maintenance, sterile storage, and central service inventory. Prerequisite: CSP 107. Lecture 1 hour per week.

General Course Purpose: This course provides competency for the clinical experience where the student will be able to perform point-of-use processing of surgical instrumentation and equipment, low-heat sterilization, high-heat sterilization, immediate-use steam sterilization, recordkeeping, and the transport of sterile items. Students will be able to maintain sterile storage, quality assurance, and central service inventory.

Course Prerequisites and Co-requisites

Prerequisite: CSP 107

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Explain the importance of point-of-use processing;
- b. Describe the purpose of immediate-use steam sterilization and when it is appropriate;
- c. Explain high-heat sterilization;
- d. Explain all types of low-heat sterilization;
- e. Describe the anatomy of an autoclave;
- f. Demonstrate how to load sterilizers properly;
- g. Explain the common reasons for sterilization failures;
- h. Describe conditions for sterile storage;
- i. Describe sterile storage shelving types and requirements;
- j. Explain receipt of sterile items into storage;
- k. Describe stock rotation;
- l. Explain the process of maintaining cleanliness of sterile storage areas;
- m. Describe sterile transportation guidelines;
- n. Explain how to keep all types of required records for central services and why it is important;
- o. Describe chemical, physical, and biological monitors that assess sterility;
- p. Describe how to track central services quality assurance to ensure customer satisfaction;
- q. Explain the different systems for managing central services inventory; and
- r. Explain packaging, storage, and labeling of pre-sterilized supplies.

Major Topics to Be Included:

- a. Point-of-use processing
- b. Immediate-use steam sterilization
- c. Autoclave anatomy
- d. Loading sterilizers
- e. Running a steam sterilizer

- f. Causes of steam sterilization failures
- g. Low-heat sterilization parameters, cycles, loading, sterilant, safety, and operation
 - o Ethylene oxide sterilizers
 - o Hydrogen peroxide sterilizers
 - o Ozone sterilizers
- h. Sterile storage conditions
- i. Sterile storage shelving
- j. Event-related sterility
- k. Arrangement of instruments and supplies
- l. Stock rotation
- m. Cleaning of sterile storage area
- n. Sterile transport
- o. Recordkeeping
- p. Physical, chemical, and biological sterilization monitors
- q. Validation and verification of sterilization
- r. Tracking quality assurance
- s. Service recovery from departmental product output
- t. Inventory management systems
- u. Packaging of pre-sterilized supplies

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