J. Sargeant Reynolds Community
College Course Content Summary

Course Prefix and Number: CSP 291
Credits: 3

Course Title: Intermediate Clinical Applications

Course Description: Provides the student with continued hands-on practice in the clinical setting with an emphasis on packaging, wrapping, and sterilization in the clinical setting within a central sterilization-processing department. Provides the clinical experience required for International Association of Healthcare Central Service Materiel Management (IAHCSMM) certification. Prerequisite: CSP 191. Laboratory 9 hours per week.

General Course Purpose: This course provides clinical experience in the central sterile environment in preparation for practice as a certified central sterile technician and provides 135 hours toward the 400 clinical hours in wrapping, packaging, and sterilization required for the IAHCSMM certification exam.

Course Prerequisites and Co-requisites:
Prerequisite: CSP 191

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Demonstrate how to operate steam autoclaves, low-heat sterilization, high-level disinfection equipment;
b. Demonstrate how to properly load sterilizers;
c. Demonstrate how to read and interpret physical and chemical monitors used in sterilization and high-level disinfection equipment;
d. Explain how items should cool after steam sterilization;
e. Demonstrate how to label instrumentation and equipment;
f. Explain the purpose of sterile load stickers;
g. Demonstrate how to use and place process challenge devices to validate sterilization methods;
h. Demonstrate how to incubate, read, and record biological monitors used to assess sterilization parameters;
i. Demonstrate appropriate technique for closing and sealing packages;
j. Demonstrate how to select and use appropriate materials for sterilization packaging;
k. Demonstrate how and when to use immediate use steam sterilization;
l. Explain how to inspect packaging materials for sterilization;
m. Demonstrate how to differentiate when it is appropriate to use the various types of packaging materials for sterilization;
n. Perform basic packaging procedures with peel pouches, flat wraps, and rigid containers; and
o. Demonstrate how to document sterilization loads.

Major Topics to Be Included:
  a. High-temperature sterilization
  b. Low-temperature sterilization
  c. Point-of-use sterilization
d. Flat wrapping

e. Rigid containers

f. Peel pouches

g. Process challenge devices

h. Biological indicators

i. Physical and chemical monitors
   o Labeling methods
   o Sterilization testing
   o Sterilization package integrity
   o Loading and unloading sterilizers
   o Sterilization cycle parameters
   o Sterilization failures and recalls
   o Sterile load stickers
   o Documentation of sterilization
   o Instrument and equipment cooling
   o Instrument and equipment packaging

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