School of TJC Continuing Studies

Tyler Junior College
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www.tjc.edu/continuingstudies/mycaa
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Education & Training Plan
Sterile Processing Technician Certification Program with Externship

Student Full Name: _____

Start Date: _____ End Date: _____

Program includes National Certification & an Externship Opportunity
Mentor Supported

Tyler Junior College Program with Externship
Course Code: TJC-STRL
Program Duration: 6 Months
Course Contact Hours: 750
Student Tuition: $2,299.00

The Sterile Processing Technician Profession

The Sterile Processing Technician program is designed to prepare students to function as a sterile processing professional in multiple healthcare settings. Sterile Processing technicians perform and participate in decontamination, cleaning, assembling, packaging, scanning, sterilization, storage, and distribution of reusable surgical instrumentation and equipment.

The Sterile Processing Technician Program

This comprehensive course will prepare students to enter the healthcare field and take the Healthcare Sterile Processing Association (HSPA) Certified Registered Central Service Technician (CRCST) exam. Course content includes medical terminology and anatomy and physiology foundations, understanding central service processing in healthcare facilities, microbiology and infection protection, instrument and equipment transport, cleaning, and decontamination and much more! Program also includes a 400 hours clinical externship at a local healthcare provider! This program will prepare students to enter the healthcare field and to pursue certification including the Healthcare Sterile Processing Association (HSPA) Certified Registered Central Service Technician (CRCST) national certification exam. This course covers the following key areas and topics:

- SPD functions and safety precautions

- Health and safety regulations, standards, and guidelines that apply to the processing of medical devices and instrumentation
- Anatomy and physiology relate to the work performed in the sterile processing department
- Basic factors in disease transmission and defenses against infection
- Regulated medical waste and non-infectious waste
- Bloodborne pathogens
- Quality decontamination processes
- Personal protective equipment (PPE) as it relates to OSHA regulations and employee safety and health
- Chemical disinfection functions
- Disinfecting agents used in the decontamination process
- Disassembly, cleaning, disinfecting, inspecting, reassembling, testing, storing, and distributing movable patient care equipment
- Instruments sets, preparing basins and textile packs

Education and National Certifications

- Sterlie Processing Technicians should have or be pursuing a high school diploma or GED.
- Students who complete this course are prepared for national certification:
  - **Healthcare Sterile Processing Association (HSPA) Certified Registered Central Service Technician (CRCST) national certification exam**

400 Hour Clinical Externship

- Decontamination (120 hours)
- Preparing & Packaging Instruments (120 hours)
- Sterilization & Disinfection (96 hours)
- Storage & Distribution (24 hours)
- Quality Assurance Processes (24 hours)
- Equipment (16 hours)

Sterile Processing Technician Detailed Course Information:

- Describe various functions of SPD
- Identify the health and safety regulations, standards, and guidelines that apply to the processing of medical devices and instrumentation
- Define anatomy and physiology, explain how they are related, and understand how anatomy and physiology relate to the work performed in the sterile processing department
- Understand the basic factors in disease transmission
- Describe the body's defenses against infection and the factors that affect the body's susceptibility to disease
- Distinguish between regulated medical waste and non-infectious waste
- Explain bloodborne pathogens and the safety precautions necessary in SPD
- Outline the standards required for a quality decontamination process
- Understand the appropriate dress code and the role of personal protective equipment (PPE) as it relates to OSHA regulations and employee safety and health
- Describe functions performed during chemical disinfection
- Describe the procedures that must be followed and the precautions that must be observed during the preparation and use of the variety of disinfecting agents used in the decontamination process

- Identify the processes needed to effectively disassemble, clean, disinfect, inspect, reassemble, test, store, and distribute movable patient care equipment
- Understand the organization of instruments sets and the preparation of basins and textile packs

National Certification

Students who complete the Tyler Junior College Sterile Processing Technician program will be prepared to sit for the Healthcare Sterile Processing Association (HSPA) Certified Registered Central Service Technician (CRCST) national certification exam(s). In order to work as a Sterile Processing Technician, many states nationwide are requiring that learners achieve national certification prior to working in that state. Students who complete this program are encouraged to complete the practical/clinical externship option with their program. This comprehensive program is designed to prepare students to sit for Healthcare Sterile Processing Association (HSPA) Certified Registered Central Service Technician (CRCST) exam(s). Students who complete this program can and do sit for the Healthcare Sterile Processing Association (HSPA) Certified Registered Central Service Technician (CRCST) national certification exam(s) and are qualified, eligible and prepared to do so.

Externship / Hands on Training / Practicum

Although not a requirement, once students complete the program, they have the ability to participate in an externship and/or hands on practicum so as to practice the skills necessary to perform the job requirements of a professional in this field. Students will be assisted with completing a resume and/or other requirements necessary to work in this field. All students who complete this program are eligible to participate in an externship and will be placed with a participating organization near their location. The institution works with national organizations and has the ability to place students in externship opportunities nationwide.

Tyler Junior College contact: If students have any questions regarding this program including national certification and externships **, they should call Judie Bower of Tyler Junior College at | (800) 298-5226 or via email at jbow@tjc.edu**

Note : No refunds can be issued after the start date published in your Financial Award document.
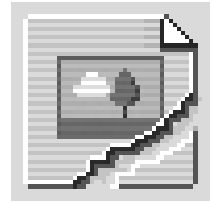
About Tyler Junior College!

Welcome to Tyler Junior College! One of the oldest junior colleges in Texas, the College was established in 1926 with a mission of providing the finest academic education for freshmen and sophomore students. Tyler Junior College remains committed to that goal while also recognizing the changing role of community colleges and the need to provide quality training for technical fields. There are several unique aspects of the healthcare career programs available to students through the School of Continuing Studies at Tyler Junior College (TJC). In addition to enrollment of over 32,000 students annually, Tyler Junior College (TJC) has been the Texas leader in healthcare technician training and education programs for over 12 years. Over the last 12 years, approximately 13,000 students have successfully completed TJC's Pharmacy Technician, Dental Assisting, Medical Billing & Coding, Clinical Medical Assistant and other healthcare programs.

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Tyler Junior College and Pearson Education

Tyler Junior College's eLearning programs were developed in partnership with Pearson Education to produce the highest quality, best-in-class content and delivery necessary to enhance the overall student learning experience, boost understanding and ensure retention. Pearson Education is the premier content and learning company in North America offering solutions to the higher education and career training divisions of colleges and universities across the country aimed at driving quality education programs to ensure student success. Please visit us at **www.pearson.com** .

About Pearson Education

Welcome to Pearson. We have a simple mission: to help people make more of their lives through learning. We are the world's leading learning company, with 40,000 employees in more than 80 countries helping people of all ages to make measurable progress in their lives. We provide a range of education products and services to institutions, governments and direct to individual learners, that help people everywhere aim higher and fulfil their true potential. Our commitment to them requires a holistic approach to education. It begins by using research to understand what sort of learning works best, it continues by bringing together people and organizations to develop ideas, and it comes back round by measuring the outcomes of our products.

Sterile Processing Technician Program Detailed Objectives:

MEDICAL TERMINOLOGY, ANATOMY, AND PHYSIOLOGY FOUNDATIONS

- Define the prefixes, suffixes, and word roots used in medical terminology
- Dissect a medical term to interpret its meaning
- Describe the main functions, basic anatomical structures, and major physiological processes of each body system
- Describe selected common diseases, disorders, and conditions of each body system

INTRODUCTION TO CENTRAL SERVICE

- Explain the role of sterile processing and the central processing department in a healthcare facility.
- Describe the functions and responsibilities of the sterile processing department.
- Follow the workflow process in the typical Central Service department.
- Define the job responsibilities of the sterile processing technician.
- Identify the regulatory agencies, standards, and guidelines for the processing of medical equipment, instruments, material, and devices.
- Discuss methods of quality assurance in sterile processing.
- Describe the rules, regulations, and standards related to central processing including related sources and governing agencies.

MICROBIOLOGY AND INFEECTION PREVENTION

- Explain the role of sterile processing and the central processing department in a healthcare facility.
- Describe the functions and responsibilities of the sterile processing department.
- Follow the workflow process in the typical Central Service department.
- Define the job responsibilities of the sterile processing technician.
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TRANSPORT, CLEANING, AND DECONTAMINATION

- Explain how soiled items are prepared at the point of use and transported to the Central Service department.
- Identify the sources of contaminated items.
- Explain the safety guidelines for transporting contaminated items.
- Define cleaning of medical devices.
- Explain how the decontamination area of the Central Service department is set up and prepared.
- Identify common cleaning tools explaining how they are used and their purposes.
- Identify the chemicals commonly used in the decontamination area.
- List the steps in the cleaning process.
- Explain the manual cleaning process.

DISINFECTION

- Define disinfection.
- Distinguish between disinfection and sterilization.
- Explain the Spaulding Classification System.

- Discuss types of disinfectants commonly used in healthcare facilities.
- Describe proper manual disinfection processes.
- Explain the automated equipment used for disinfection, including tips for operating this equipment properly.
- Discuss typical disinfection quality assurance procedures.

SURGICAL INSTRUMENTATION

- Discuss the role of the CS technician related to instruments and instrument kits.
- Explain the important factors associated with surgical instruments and devices.
- Explain the instrument manufacturing process.
- Explain how surgical instruments are classified.
- Identify the parts, care, handling, and processing tips related to specific surgical instruments.
- Explain the post-operative care of surgical instruments.
- Identify the solutions that damage surgical instruments.
- Discuss instrument sharpness testing.
- Explain methods for instrument identification used in the CS Department.
- Explain surgical instrument lubrication needs and techniques.
- Explain how to protect instruments from damage.
- Identify different types of powered surgical instruments and their uses and parts.
- Discuss the processing of powered surgical instruments.
- Explain common reasons that powered surgical instruments need repairing.
- Identify the types and purposes of rigid endoscopes, including how they are selected and processed.
- Explain laparoscopic instrument, including how they are processed.
- Explain robotic instruments, including how they are processed.
- Explain the cleaning, inspection, processing, storage, and transporting of flexible endoscopes, including common accessories.
- Discuss endoscope-related infections and prevention.
- Explain the care and handling of endoscopes.
- Discuss the procedures related to loaner instrumentation.

ASSEMBLY AND PACKAGING

- Identify the basic components of a computer system.
- Explain how to set up and function of the assembly area.
- Explain how to prepare pack contents for packaging.
- Explain the foundational concepts for the packaging process including objectives of packaging and materials used with each sterilization method.
- Discuss reusable packaging materials.
- Discuss disposable packaging materials.
- Identify methods for closing packages.
- Review methods for labeling packages
- Discuss specific concerns and tips for assembly and packaging.
- Define the concept of Immediate Use Steam Sterilization.
- Describe requirements for point-of-use processing.
- Explain the Immediate Use Steam Sterilization procedure.
- Explain how to perform point-of-use processing for heat-sensitive medical devices.

STERILIZATION

- Identify factors that impact the effectiveness of sterilization including the conditions necessary for an effective steam sterilization process.
- Explain when steam sterilization is performed listing its advantages and disadvantages.
- Explain how a steam sterilizer works including the major components of the machine.
- Identify the different types of steam sterilizers.
- Explain steam sterilization cycles.
- Explain the basic work practices for performing a steam sterilization in the CS Department.
- Identify sterilization process indicators including why they are needed for quality control.
- Identify purposes for low-temperature sterilization including when these methods should be used.
- Explain the specific requirements for low-temperature sterilization methods commonly used in healthcare facilities: ethylene oxide, hydrogen peroxide, and ozone.
- Explain the parameters of each low-temperature sterilization method.

STERILE STORAGE AND TRANSPORT

- Identify the important considerations related to sterile storage.
- Identify the types of sterile storage shelving.
- Explain procedures for moving sterile items into storage.
- Define event-related sterility.
- Explain basic sterile storage guidelines.
- Explain steps and considerations for cleaning sterile storage areas.
- Identify common sterile storage personnel.
- Explain how to transport sterile items, including important guidelines.

MONITORING AND RECORDING

- Explain the administrative tasks important in the CS Department related to monitoring and recordkeeping.
- Define quality assurance, typical components, and common procedures related to quality assurance in the CS Department.
- Explain the basic goals and components of common quality assurance programs.
- Define failure mode and effects analysis (FMEA) and root cause analysis (RCA).
- Explain the common procedures related to inventory management in the CS Department.
- Describe common inventory distribution replenishment systems that might be used in the CS Department.
- Explain how the CS Department supports the supplies and equipment needed for patient care and procedures in the facility.

CENTRAL SERVICES SUPPORT AND MANAGEMENT

- Central Services Department.
- Explain how tracking systems are used in the Central Service Department.
- Discuss the importance of safety and risk management in the Central Services Department.

- Identify the common workplace hazards in the CS Department including appropriate prevention and management strategies.
- Discuss common incident and accident reporting procedures used in the CS Department.
- Explain the importance of effective communication in the CS Department.
- Identify basic customer service skills required in the CS Department.
- Discuss ways for CP staff professional development and advancement of a CS career pathway.

MICROSOFT OFFICE

- Module Use an integrated software package, specifically the applications included in the Microsoft Office suite
- Demonstrate marketable skills for enhanced employment opportunities
- Describe proper computer techniques for designing and producing various types of documents
- Demonstrate the common commands & techniques used in Windows desktop
- List the meaning of basic PC acronyms like MHz, MB, KB, HD and RAM
- Use WordPad and MSWord to create various types of documents
- Create headings and titles with Word Art
- Create and format spreadsheets, including the use of mathematical formulas
- Demonstrate a working knowledge of computer database functions, including putting, processing, querying and outputting data
- Define computer terminology in definition matching quizzes
- Use the Windows Paint program to alter graphics
- Use a presentation application to create a presentation with both text and graphics
- Copy data from one MS Office application to another application in the suite
- Use e-mail and the Internet to send Word and Excel file attachments
- Demonstrate how to use the Windows Taskbar and Windows Tooltips
- Explain how copyright laws pertain to data and graphics posted on the Internet
- Take the college computer competency test after course completion
- Follow oral and written directions and complete assignments when working under time limitations

Note: Although the Microsoft Office Module is not required to successfully complete this program, students interested in pursuing free Microsoft MOS certification may want to consider completing this Microsoft Office Module at no additional cost.

System Requirements:

Windows Users:

- Windows 8, 7, XP or Vista
- 56K modem or higher
- Soundcard & Speakers
- Firefox, Chrome or Microsoft Internet Explorer

Mac OS User:

- Mac OS X or higher (in classic mode)
- 56K modem or higher
- Soundcard & Speakers
- Apple Safari

iPad Users:

- Due to Flash limitations, eLearning programs are NOT compatible with iPads

Screen Resolution:

- We recommend setting your screen resolution to 1024 x 768 pixels.

Browser Requirements:

- System will support the two latest releases of each browser. When using older versions of a browser, users risk running into problems with the course software.
- Windows Users: Mozilla Firefox, Google Chrome, Microsoft Internet Explorer
- Mac OS Users: Safari, Google Chrome, Mozilla Firefox

Suggested Plug-ins:

- Flash Player
- Real Player
- Adobe Reader
- Java