Career Pathway

- Sterile processing and distribution technician (SPD tech or CPD tech).
- Central sterile supply technician (CSS tech).
- Central processing technician (CPT).
- Central service technician (CST).
- Certified Sterile Science Technician (CSST).

Benefits to the Individual

- Discuss the various functional areas of a typical Central Service Department. Identify work hazards and importance of good communication skills.
- Understand the various parts of the body, body systems and how they work. Identify pathogenic microorganisms and how they affect the body.
- Describe levels of disinfections and universal precautions. Discuss the various aspects for the prevention of the transmission of blood borne pathogens.
- Identify purpose and requirements for the decontamination process.
- Be able to discuss the types and utilization of various types of cleaning equipment.
- Identify the grades of instrumentation and discuss the care and maintenance required. Demonstrate the cleaning and care technique for power equipment, heat sensitive items and scoped instruments.
- Understand basic principles for packaging and containerizing instrument sets. Discuss how mass metal could affect the sterile process and how to correct it.
- Discuss the various types of quality control issues. Understand sterility maintenance and shelf life techniques.
- Discuss the various sterilization methods available for hospital use.
- Demonstrate knowledge in sterile testing, parameters and traceability.
- Discuss benefits and dangers of ethylene oxide (ETO), a carcinogenic.
- Describe phases of pre-vac, gravity, ETO, plasma and peracetic acids sterilization cycles.
- Understanding biological requirements and record-keeping requirements.
- Discuss proper environmental conditions, stock rotation and work flow efforts.
- Describe the four principal types of inventory systems and how they work.
- Receive hands-on practicum in sterile processing in St. Vincent’s Medical Center (St. Vincent’s Medical Center is a licensed 473-bed community teaching and referral hospital with a Level II trauma center.

Benefits to the Organisation

- Demonstrate the ability to adhere to personal and industry safety standards (Application of Knowledge).
- Display understanding, compassion and acceptance.
- (Communication) Adhere to a strong work ethic and be able to negotiate and abide by the terms of agreement that defines one’s employment.

ASTRON INSTITUTE OF INTERNATIONAL STUDIES

Corporate Office:
Surya Kiran Complex, Old Mehrauli Gurgaon
Road, Gurgaon, Haryana (INDIA)-122001
Website: www.astron.international

For Registration Call
8800893636
0124-4546200

ONLINE DIPLOMA/CERTIFICATE PROGRAM IN CSSD TECHNICIAN
Astron Institute of International Studies (AIIS), an academic vertical of Astron Group, Gurgoan, is focused on the intensively growing and continually developing fields of public and community health with emphasis on the underserved section of society at large. It envisions promoting excellence in Healthcare, Research, Education, Training, Skill Enhancement and Consultancy Services. According to National Health Policy 2015 it is a need for planned expansion of allied technical skills including medical and paramedical workforce. AIIS, with its Vision and Mission to contribute to the fulfillment of that goal, works towards development of healthcare workforce with specialized skills and knowledge.

**About AIIS**

**Why AIIS?**

- Accredited by International Accreditation Organization, USA.
- Accredited by AIIS

**Program Overview**

This course will provide the essential skills required to work in a Hospital Central Sterile Supply Department (CSSD). Trainee will learn in detail about the essential skills required to work in a hospital CSSD. Trainee shall be exposed to basics of sterilization, operations and handling of sterilizers, documentation, quality control and sterilization practices. The course shall also interlink and teach coordination of CSSD & Infection control.

**Who is a CSSD Technician**

The CSSD Technician decontaminates, inspects, assembles and sterilizes instruments and surgical trays. The technician also manages inventory control, orders supplies, inspects, maintains, delivers and retrieves equipment and instruments for the surgery, emergency room and intensive care units. Other topics covered in this program include basic anatomy, physiology, quality assurance of sterilized equipment and biomedical waste management.

**Objectives**

- Demonstrate basic technical skills in managing the process for surgical instrumentation sterilization, inventory control and supply chain management, and information technology as it relates to the sterile processing environment.
- Demonstrate professional behaviors of caring, accountability, responsibility, respect for the quality care of patients, acceptable attitude and attire, and organization and time management skills.
- Work independently in a team of central sterile processing technicians who are collaborating to maintain sterilization and storage.
- Utilize critical thinking skills as a basis for clinical judgment and anticipatory decision making when managing all tasks related to sterile processing.
- Effectively apply verbal, nonverbal, and written communication principles and skills in the workplace.
- Maintain industry standards of quality control and safety principles in the workplace.
- Uphold legal and ethical standards and adhere to principles of patient confidentiality within the healthcare community environment as defined by HIPAA.

**Contents**

1. Human anatomy and physiology
2. Introduction to central sterile supply department
3. An introduction to CSSD technician
4. Equipments used in CSSD
5. Basic microbiology
6. Decontamination
7. Sterilization
8. Sterilization processes
9. Packaging of products for sterilization Quality assurance of sterilized equipments Reuse of disposable medical devices
10. Biomedical waste management

**Highlights**

- Recognized by IAO
- Webinar
- E-Library
- Latest resources
- Student faculty chat
- Virtual classroom

**Eligibility Criteria**

Minimum eligibility is 10+2 from Central or State board with Science.

**Program Duration**

<table>
<thead>
<tr>
<th>Duration</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Months certificate course (3 Months Theory Classes and 3 Months Hospital Training)</td>
<td>International Accreditation Organization (IAO), USA, Astron Institute of International Studies (AIIS)</td>
</tr>
<tr>
<td>One Year (9 Months Theory Classes and 3 Months Hospital Training)</td>
<td>International Accreditation Organization (IAO), USA, Astron Institute of International Studies (AIIS)</td>
</tr>
</tbody>
</table>

**Pedagogy**

The programme will be a balanced mix of virtual classes, self & term end assessment, project work, group discussion & case presentation along with hands on training.

**Evaluation and Grading**

- Self Assessment
- Term End Assessment
- Project Work
- Internal assessment during hospital training