

# **Health care and Pharmaceutical**

## **CERTIFIED PHLEBOTOMY TECHNICIAN (CPT)**

### **Curriculum**

#### **Program Outline :**

#### **Module 1: Fundamentals of Certified Phlebotomy Technician (CPT)**

**1. Venipuncture:** Proficiency in performing venipuncture to collect blood samples from patients, including proper technique and patient preparation.

**2. Patient Interaction:** Effective communication skills to explain procedures, calm patients, and ensure their comfort and cooperation.

**3. Infection Control:** Adherence to infection control practices to prevent the spread of infections, including proper hand hygiene and use of personal protective equipment (PPE).

**4. Specimen Handling and Processing:** Knowledge of proper specimen handling, labeling, and transportation to ensure the integrity of blood samples.

**5. Compliance and Safety:** Understanding and following workplace safety regulations, including compliance with HIPAA and other relevant guidelines.

## **Module 2:Advanced Certified Phlebotomy Technician (CPT)**

**1.Specialized Blood Draw Techniques:** Proficiency in performing specialized blood draws, such as from patients with difficult veins or pediatric and geriatric patients.

**2.Point-of-Care Testing (POCT):** Skills in performing and interpreting point-of-care tests, such as glucose and cholesterol testing, at the patient's bedside.

**3.Emergency Response:** Ability to respond to medical emergencies, including managing adverse reactions during blood draws and providing basic life support.

**4.Advanced Infection Control:** In-depth knowledge of infection control practices, including handling biohazardous materials and implementing sterile techniques.

**5.Patient Education and Advocacy:** Providing education to patients about the importance of blood tests, preparing them for procedures, and advocating for their needs and concerns.

## **Module 3:Practical Applications**

### **1. Patient Care and Management:**

**Medication Therapy Management (MTM):** Pharmacists optimize medication regimens to improve therapeutic outcomes and reduce adverse effects.

## **2. Clinical Practice:**

**Patient Counseling:** Educating patients on proper medication use, potential side effects, and lifestyle modifications to enhance health outcomes.

## **3. Pharmaceutical Research and Development:**

**Drug Discovery and Development:** Conducting research to discover new medications and develop existing ones

## **4. Healthcare Technology and Innovation:**

**Telemedicine:** Using telehealth platforms to provide remote consultations, follow-ups, and health monitoring

## **Module 4: Capstone Project**

### **1.Impact of Telemedicine on Patient Outcomes**

Analyze the effectiveness of telemedicine in improving patient outcomes, especially for chronic disease management .

### **2.Pharmaceutical Waste Management**

Develop strategies to reduce pharmaceutical waste and its environmental impact.

### **3.Medication Adherence in Elderly Patients**

Investigate factors affecting medication adherence among elderly patients and develop interventions to improve adherence.

### **4.Implementation of an Electronic Health Records (EHR) System**

Assess the challenges and benefits of implementing an EHR system in a healthcare facility

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## **Elective Modules**

**Advanced Pharmacology:** Deep dive into the mechanisms of action, side effects, and interactions of various drugs.

**Clinical Research Methods:** Learn about designing and conducting clinical trials, data analysis, and ethical considerations.

**Health Informatics:** Study the use of information technology in healthcare, including electronic health records and data management.

**Global Health:** Explore health issues and solutions in a global context, including international health policies and practices

**Websites:**

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>