Ramaq Chools
Consulting, Training & IT Services

Health care and Pharmaceutical

CERTIFIED EKG TECHNICIAN (CET)
Curriculum

Program Outline :

Module 1:Fundamentals of Certified EKG Technician (CET)

1. **Electrocardiogram (EKG) Testing:** Proficiency in performing EKG tests to monitor the electrical activity of the heart and detect any abnormalities.

2. **EKG Machine Operation:** Knowledge of operating and troubleshooting EKG machines to ensure accurate readings and patient safety.

3. **Patient Interaction:** Ability to communicate effectively with patients, explaining the EKG procedure and ensuring their comfort and cooperation.

4. **Data Interpretation:** Skills in interpreting EKG results and recognizing common cardiac rhythms and abnormalities.

5.**Record Keeping:** Maintaining accurate and detailed records of EKG results, patient information, and test procedures.

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Module 2:Advanced Certified EKG Technician (CET)

1.Advanced Cardiac Monitoring: Proficiency in using advanced cardiac monitoring equipment and techniques, such as Holter monitoring and stress testing.

2.Arrhythmia Recognition and Management: Expertise in recognizing and managing complex cardiac arrhythmias, including atrial and ventricular arrhythmias.

3.Pacemaker and Implantable Cardioverter Defibrillator (ICD) Monitoring: Skills in monitoring and interpreting data from pacemakers and ICDs to ensure proper functioning and patient safety.

4.Medication Effects on EKG: Understanding the impact of various medications on EKG readings and recognizing drug-induced changes in cardiac rhythms.

5.Data Analysis and Reporting: Advanced skills in analyzing EKG data, generating detailed reports, and communicating findings to healthcare providers for accurate diagnosis and treatment

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

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

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

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

4.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/