



CTE: Healthcare

Overview:

In one of our deepest experiences yet, this Career and Technical Education (CTE) module introduces you to many potential healthcare concepts, responsibilities, and tools a Medical Assistant may need. As you explore the different rooms in this hospital-themed environment you will learn about various organ systems, practice providing different patient examinations such as an electrocardiogram and lung spirometry tests, examine different biomedical devices, provide first aid and learn to control bleeding, and see how to keep everyone safe with Personal Protection Equipment.

How to Find the Experience

Once logged in on the VXRLabs homepage, navigate to the "Subjects" tab, select the "CTE Healthcare" option from the left-side menu, then select the "Medical Assistant CTE" option.

Supplemental Material:

Visit the link below or scan the provided QR code to see specific standards and acknowledgments.



NOCTI: Job Ready Credential Blueprint

<https://www.nocti.org/wp-content/uploads/2020/09/JRMedAsstg4455.pdf>

Gameplay Instructions

Getting Started

For this exercise, you will be exploring multiple rooms in a large hospital-themed environment where you may approach the floating instruction boxes and interact with them using your hand cursors to get step-by-step directions for how to navigate the different learning modules. You will have the chance to:

1. Provide a Vision Test
2. Provide a Lung Spirometry Test
3. Learn the Anatomy of the Lungs
4. Learn the Anatomy of the Heart
5. Study the Traits and Processes of the Cardiovascular and Pulmonary Systems
6. Practice the Process to Remove Sutures
7. Practice How to use Personal Protection Equipment



8. Provide First Aid and Antiseptic Care
9. Administer an Electrocardiogram (ECG)
10. Study How to Control Bleeding using Pressure Points
11. Provide Oxygen or Medication using a Nebulizer
12. Examine the Uses of Common Biomedical Devices including an X-Ray Machine, an Autoclave, a Centrifuge, a Microscope, and an Incubator



Titles and Simulations

Communications
 Medical Terms
 Medical Records
 Health Insurance
 Patient Appointment Logs
 Billing
 Measuring Height and Weight
 Arithmetic for Medicine
 Converting Units of Measurement
 Body Parts
 Anatomy, Physiology, and Pathology
 Delivery System
 Emergency Medical System
 Medical Instruments

Types of Diagnostic Tests
Lab Spirometry Sim
 Measuring Pulse and Blood Pressure
 Cardiovascular Testing
ECG Simulation
 Collecting and Preparing Specimens
 Biomedical Equipment Usage and Maintenance
Biomed Equipment Sim
 Hematology Procedures
 Pulmonary Function Testing
 Body Parts: Hematology & Pulmonary
 Sim
 Vision Screening
Vision Test Sim

Testing Hearing
 Testing Reflexes
 First Aid
First Aid Sim
 Aseptic Techniques
 Dressing Changes
 Immobilization and Casts
 Priority of Emergency Care
 Prepping a Room for Examinations
 Prepping a Patient for Examinations
 Assisting Patients
 Vital Signs
 Documentation and charting
 Medication Dosages
 Drug Administration



Drug Classifications

Controlled Substances

Intradermal Testing

Eyes and Ear Irrigation

Suture and Staple Removal

Suture Removal Sim

Burns

Nebulizer Treatments

Nebulizer Sim

CPR/AED

CPR Sim

Control Bleeding

Bleeding Control Sim

Choking

Urinary Catheterization

Nutrition

Holistic Modalities

Growth and Development

Assistive Devices

Discharge

Assessment Plan

Special Consideration

Handwashing

Protective Equipment

PPE Sim

Body Mechanics

OSHA Standards

Infection Control

Safety Data Sheets

Contaminated Materials

Poisoning

Blood Borne Pathogens

Blood Borne Pathogens

HIV/AIDS

HIPAA Regulations

Patient Rights

Good Samaritan Law

Interdisciplinary Team

Legal Documents

Professional Standards

Medication Safety