Introduction

MDRD Function and Structure
Virtual tour of MDRD
Standardized workflow
Organizational Structure

Compulsory Quiz 80% Required

Chapter 1: Quality Systems
Creating a Culture of quality
Documentation and Records
Policies and Procedures
Manufacturer’s Information and Instructions
Senior management responsibility
Human Resources
Quality in the MDRD
Total Quality Management TQM and Six Sigma

Compulsory Quiz 80% Required

Chapter 2: Medical Terminology
Definition of Medical Terminology
The Evolution of Medical Terminology
Anatomy of a Medical Word

Compulsory Quiz 80% Required

Chapter 3: Basic Anatomy and Physiology of the Human Body
Cells
Organs
Skeletal Systems


**Muscular Systems**

**Nervous Systems**

**Sense Organs**

**Major Organ Systems**

**Compulsory Quiz 80% Required**

**Chapter 4: Microbiology**

What is Microbiology?

What are Microorganisms?

Definitions

The Basic Cell

Characteristics of Protein

Requirements for Cell Life

Classification of Microorganisms

Prions

**Compulsory Quiz 80% Required**

**Chapter 5: Transmission of Infection**

Video Infection Prevention and control

Positive Aspects of Microorganisms

How Microorganisms cause infectious disease

Chain of Transmission

Modes of Transmission

Routine Practices

Video Clips Hand Hygiene, Hand Washing, Donning and Doffing PPE videos

Additional Precautions

**Compulsory Quiz 80% Required**

**Chapter 6: Decontamination**

Part 1: Introduction

Video on Decontamination
What is Decontamination?
Staff Safety and Personnel Attire
Decontamination Quality System
Spaulding’s Classification
Point of use Handling and transportation
Difficult to Clean Devices
Retrieval and Transport
Required Housekeeping Practices
Decontamination Area
Items Effecting Space Requirements
Environmental Controls & Design
Instrument Air & Water
Cleaning Agents

Video on Decontamination Process Review

**Compulsory Quiz 80% Required**

**Part 2:** Decontamination of instruments in the MDRD
Care and Handling of Instruments
Sorting and Disassembly with Video clip
Medical Support Equipment
Cleaning Tools
Manual Cleaning
Disinfection & Rinsing
Video clip High Level Disinfection Manual and Mechanical

**Compulsory Quiz 80% Required**

**Part 3:** Mechanical equipment for the Decontamination Area
Mechanical Washers
Ultrasonic Cleaners
Cart Washers
Cleaning Respiratory
Drying
Pasteurmatic Washers
Ultrasound Probes
Automatic Endoscope Reprocessor
Video clip on Automated HLD and Flexible Endoscope HLD in AER

**Compulsory Quiz 80% Required**

**Chapter 7: Assembly and Instrument Classification**

Assembly Video
Lubrication
Assembly
Sorting
Inspection
Classification
Instrument Set Assembly
Instrument Management System

**Compulsory Quiz 80% Required**

**Chapter 8: Rigid and Flexible Endoscopy**

**Part 1: Rigid Endoscopy and Minimally Invasive Surgery Instruments**

Rigid Endoscopes
Design Features and Application
Cleaning – Video Clip
Inspection and Testing
Sterilization

**Part 2: Flexible Endoscopy Instruments**

Video Flexible Endoscopes
Types of Flexible Endoscopes
Anatomy of a Video Flexible Endoscope
Decontamination Area
Chapter 9 Packaging, Gowns and Drapes

Part 1: Protective Packaging Material

Overview

Policies and Procedures

Characteristics of Protective & Packaging materials

Wrapping

Closure Techniques

Types of Single use Non–woven Protective Packaging materials

Paper/Plastic Peel-back Pouching

Sealing

Part 2: Reusable Packaging Materials/Textiles

General Requirements of a Healthcare facility

Characteristics of Reusable Textiles

Classification of Reusable Textile

Construction Characteristics

Care of Reusable Textiles

Inspection – Video Clips

Patching – Video Clips

Folding and Wrapping – Video clips

Sterilization

Closure Techniques - Video Clips

Storage

Compulsory Quiz 80% Required
Part 3: Containers

Advantages & Disadvantages of Rigid Containers

Standards for Selection

General Characteristics of Containers

Care & Cleaning of Rigid Containers

Selection & Purchase of Containers

**Compulsory Quiz 80% Required**

**Chapter 10: Loaners**

Video Loaners Overview

What are Loaner Instruments?

Policies & Procedure

Sending, Transporting & Receiving

Disinfection, Inspection & Sterilization - Video Clip

Roles & Responsibilities

**Compulsory Quiz 80% Required**

**Chapter 11: Sterilization**

Fundamentals

Quality System

Sterilizer Loading

Steam Sterilization - Video

Low Temperature Sterilization – Video Clip

Ethylene Oxide Sterilization

Vaporized Hydrogen Peroxide Sterilization

Peracetic Acid Sterilization

After Sterilization

Other Sterilization Methods

Monitoring of the Sterilization Process
Record Keeping

Video Clip

**Compulsory Quiz 80% Required**

**Chapter 12: Storage and Distribution**

Overview Video
Sterile Storage Areas
Environmental Controls
Shelving
Sterile Storage Cleaning
Equipment
Organization
Event Related Sterility
Distribution
Exchange Carts
Transportation: Onn & Off Site

**Compulsory Quiz 80% Required**

**Chapter 13: MDRD Accountabilities**

Clients-Centered Services & Quality Improvement
Effective Communication
Legal Aspects and Risk Management
Diversity in the Workplace
Harassment in the Workplace

**Compulsory Quiz 80% Required**

**Chapter 14: Reprocessing in Community HealthCare Settings**

Video Decentralized Reprocessing
Overview
Hand Hygiene
Cleaning
Packaging
Sterilization
Storage
High Level Disinfection
Cleaning of a Flexible Endoscope

Summary Quiz

**Compulsory Quiz 80% Required**

**Exam Online**

A 2-hour exam consisting of 100 multiple choice & true and false questions written online. Questions weighted by chapter. Proctoring performed by a webcam through ProtcorU. Immediate results received on the computer with a summary of each chapter of questions correct. Requires 70% and certificate mailed within 3 weeks.