

MDRAO ONLINE COURSE

FOURTH EDITION 2018

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

Pre-cleaning (Bedside Cleaning)

Inspection

Leak Testing and Cleaning Flexible Endoscope

Cleaning & High Level Disinfection Manual and mechanical

Storage

Compulsory Quiz 80% Required

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 ProctorU. Immediate results received on the computer with a summary of each chapter of questions correct. Requires 70% and certificate mailed within 3 weeks.