

SERVICING LASER PRINTERS

Course Length: 5 days

CEUs Awarded: 4

Introduction

Medical Laser Imagers have become a staple in many medical imaging departments since their introduction in 1984. With the increased use of CR and DR added to the already high output of MRI, CT and Ultrasound departments the use of dry lasers and the demands placed on these units is increasing. The trained service professional will be taught the skills necessary for mechanical, electro-mechanical and electronic maintenance of laser imagers.

Objectives

At the conclusion of this course participants will be able to:

- Evaluate overall system performance
- Troubleshoot mechanical and electronic problems on all components of the units
- Perform complete and thorough preventative maintenance procedures on the units
- Follow system detail block diagrams

Prerequisites

To attend this course, the service professional should have a good understanding of basic electronic principles, a high mechanical aptitude and be computer literate. An understanding of DICOM connectivity is a plus.

Course Outline

DAY 1

- I. Overview and History of Dry Medical Laser Imagers
- II. Safety Issues
- III. Using Documentation
- IV. Unit Operation
- V. Service Access
 - A. Component Location
 - B. Component ID
 - C. Theory of operation1

DAY 2

- I. Review
- II. Mechanical Systems
 - A. Transport
 - B. Pneumatics
 - C. Robotics
 - D. Lasers
- III. Power Distribution
- IV. System Electronics
 - A. PCB Identification and Function
 - V. Connectivity Options

DAY 3

- I. Review and troubleshooting
 - A. Service Software
 - B. Diagnostics
 - C. Configuration and Adjustments
 - D. Parts Removal and Replacement
- II. Preventative Maintenance Procedures

DAY 4

- I. Dicom Fundamentals
 - A. Introduction
 - B. Products
 - C. Installation

DAY 5

- I. Modality Configuration
- II. Print Link Installation
- III. Course Review and Q & A