Digital Mammography: Hologic MG Products: Affirm Biopsy, SecurView DX, R2 Cenova CAD, and ATEC Sapphire (1 week)

RADIOLOGICAL SERVICE TRAINING INSTITUTE

Introduction

This Hologic Mammography Products training course will provide engineers the necessary knowledge to maintain systems that interface with the Hologic Dimensions 2D or 3D Tomo, and the Hologic Selenia 2D systems. Given today's regulatory environment maintaining the system at peak performance is of the utmost importance.

At the completion of this course students will be able to perform system maintenance procedures including:

- System install
- Configurations and adjustments
- Software load, including necessary hardware configuration
- Quality Control Checks/Tests
- Preventive Maintenance
- Troubleshooting

Systems covered in this training class include:

- Affirm Biopsy (Upright)
- SecurView DX Diagnostic Workstation
- R2 Cenova CAD
- ATEC Sapphire Vacuum Module

Prerequisites

To attend this course, the service professional must have attended Phase I and possess fundamental knowledge and understanding of the principles of X-ray and basic electronics. Students must have also attended either RSTI's Hologic Dimensions 3D Tomo Mammo or RSTI's Selenia 2D training courses.

Objectives (for each product)

- Identify the major components of the system
- Complete all operator, administration, and application tasks
- Configure the system to interface with related components
- Perform all checks and adjustments to maintain compliance with QC/MQSA requirements
- Demonstrate competence to be able to handle maintenance, backup, restore, and software load from cold (where applicable)
- Perform complete Preventive Maintenance procedures as performed by the OEM
- Evaluate circuit functions to facilitate troubleshooting

Course Outline

Day 1 (SecurView)

- Course introduction
- SecurView system overview
- DICOM Objects:
  - For Processing
  - For Presentation
- Image workflow as it pertains to:
  - Hologic Dimensions (3D/2D)
  - Hologic Selenia (2D)
- SecurView system
  - Components
  - Terms/acronyms
  - System documentation
  - Manual set overview
- System logins
- Mammographic regulatory overview
- Quality Control
- Functional checks
- Network configuration & communications
- Configure necessary settings on Hologic Dimensions (3D/2D) or Selenia (2D)
- Test workflow between system and Dimensions (3D/2D) and Selenia (2D)
- System configuration
- Backup/Restore
- Software reload
  - Hardware configuration (RAID)
  - OS and Application load
- Functional testing
- Lab Activities
  - Major system component identification
  - System turn-on
  - System logins
  - QC Testing & Checks
    - Monitor Calibration
  - System power-down
  - Perform system backup
  - Replace system HDD
  - Load OS & Application software
  - Perform system restore
  - Perform functional testing

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Hands-On Training Course
Course Length: 1 Week
CEU's Awarded: 8 CEU's
State of Ohio Registration No. 93-09-1377T

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Day 2 (SecurView & R2 CAD)

- Common problems & Troubleshooting
  - Reading Error Logs
- Preventive maintenance

Day 3 (R2 CAD)

- CAD Process & R2 overview
- DICOM Objects:
  - For Processing
  - For Presentation
- Image workflow as it pertains to:
  - Hologic Dimensions (3D/2D)
  - Hologic Selenia (2D)
- R2 CAD system
  - Components
  - Terms/acronyms
  - System documentation
  - Manual set overview
- System logins
- Mammographic regulatory overview
- Quality Control
- Functional checks
- Network configuration & communications
- Configure necessary settings on Hologic Dimensions (3D/2D) or Selenia (2D)
- Test workflow between system and Dimensions (3D/2D) and Selenia (2D)
- System configuration
- Backup/Restore
- Software reload
  - Hardware configuration
  - OS and Application load
- Functional testing
- Service Access:
  - Local access
  - Remote access
- Lab Activities
  - Major system component identification
  - System turn-on
  - System logins
  - QC Testing & Checks
  - System power-down
  - Perform system backup
  - Replace system HDD
  - Load OS & Application software
  - Perform system restore
  - Perform functional testing

Day 4 (Affirm Biopsy)

- Affirm system overview
- Affirm system
  - Components
  - Terms/acronyms
  - System documentation
  - Manual set overview
- Installing & Removing the BCM & BGM
- Accessories & Needle Guides
- Quality Control
- Functional checks
- Communication Test
- QAS
- Configure necessary settings on Hologic Dimensions (3D/2D)
- System configuration
- Backup/Restore
- Preventive Maintenance
- Lab Activities
  - Major system component identification
  - Affirm Installation
  - System logins
  - QC Testing & Checks
  - Affirm Removal
  - Perform functional testing
  - Preventive Maintenance

Day 5 (Affirm Biopsy & ATEC Sapphire)

- Affirm Common problems & Troubleshooting
  - Error Messages
- ATEC Sapphire System Overview
- ATEC Sapphire Controls & Functions
- ATEC Sapphire Functional Checks
- ATEC Sapphire Troubleshooting
- ATEC Sapphire PM
- ATEC Sapphire FRU's
- Course review
- Course evaluation
- Final exam

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