



DRX Revolution Service Training

Audience: Biomedical Engineers, Field Engineers and Dealers & Business Partners who support the DRX Revolution Systems.

Objective & Learning Outcome:

Upon successful completion of this course the student will be able to:

- Understand the operation of the DRX-Revolution System
- Understand Revolution and Revolution Plus Differences
- Identify the major hardware assemblies/subassemblies of the DRX-Revolution System
- Describe the operation of the major circuits of the DRX Revolution
- Perform component adjustments and replacements on the DRX-Revolution
- Troubleshoot the DRX-Revolution hardware
- Perform an Acceptance and Compliance
- Perform Preventative Maintenance on the DRX-Revolution System

Training Outline:

Training is performed by a Carestream Technical Trainer or Product Specialist. The class is structured with Instructor Led lecture/discussion and practical hands-on exercises.

Tentative daily schedule:

Day 1:

- Introduction
- Safety
- DRX-Revolution Introduction and class outline
- System Overview (Classroom)
- DRX-Revolution System Operations & Safety (Lab)
 - Drive the Cart and Point the Tube Head
 - Remove Covers
 - Component location
 - Lockout/Tagout
 - Remove Batteries
- Power Management and Electrical Layout (Classroom)
- Cart Drive lecture
 - Mechanical layout
 - Elect. Diagrams
- Drive wheel remove
- Drive motor remove lab
- Cart Drive calibration

Day 2:

- Worksheets, locate circuit boards and subsystems
- Collimator Assembly lecture with props
 - Service manual
 - Securing column
 - Collimator removal
- Column, Carriage, Crane & Tube Head Ay (classroom)
 - Mechanical layout
 - Electrical diagrams
- Tubehead assy, boom and trolley removal lab
- Brake adjustments

Day 3:

- Inner and outer column (classroom)
- Winding the counterbalance
- Dock adjustment
- Column and boom movement
- Generator Overview (classroom)
- Generator lab

Day 4:

- Preventative Maintenance
- Acceptance and Compliance
- Revolution Plus Differences
- Battery History Viewer
- Tubehead monitor screens
- Service Overview

Day 5:

- Service Overview, diagnostics
- Parts List, Special tools review
- System reassembly
- Final Exam
 - Online
- Q & A period, Wrap up. Feedback and time reporting

Prerequisites:

Before attending, the participant **MUST** have completed the following prerequisites:

- Xray Fundamentals (RSTI Level 1, DITEC or Carestream Online Xray fundamentals course in the Technical Learning Center)
- DRX-1 With Mobile System Training
- DRX-Revolution Service Training: System Overview. This training is located on the Carestream Technical Learning Center

- ImageView Software online training assigned at registration. This training is located on the Carestream Technical Learning Center

Recommended background or experience:

- Basic electronics and mechanical background.
- Basic understanding of the use of Windows and the laptop.
- An understanding of networking concepts and basic network troubleshooting.

Required student tools:

Participants are required to bring a laptop computer. Minimum requirements for the laptop are Pentium II processor (or better)

- 4GB RAM or more
- Microsoft Windows 7 (or newer)
- Microsoft Office (Word, XL, PPT)
- At least 500 MB of available hard drive space
- A 10/100/1000 Ethernet NIC with an RJ-45 port or wireless capabilities
- Google Chrome or Microsoft Edge
- A USB Port

Deliverables:

- Certificate of attendance available in the Technical Learning Center
- Course Training Content
- Access to Service Assets Portal for Service documentation and Service Bulletins
- Securlink Access for **Revolution Classic and Revolution Plus**
- LP/ CP access code for phone support through the COE (US&C only)

Other Information:

- Training will be performed in English unless otherwise communicated.
- The student is responsible for all transportation to and from the training facility.
- Participants may be required to share equipment during the lab exercises.

Schedule:

- In general, classes begin at 8 AM and conclude at 5 PM M-Thur. Classes end at 12 pm on Fridays unless otherwise noted.
- Participants must allow at least 1.5 hours between completion of class and travel departure.

Contact Information for Regional Training Coordinators

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