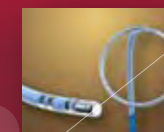


Biomedical Engineering  
Technical Service Training Courses  
Endo- Surgery Institute, Cincinnati OH

June 20 -22, 2007

September 17 -19, 2007



## Biomedical Engineering

A Technical  
Service Training  
Course



**Biosense Webster, Inc.**

3333 Diamond Canyon Road  
Diamond Bar, CA 91765, USA  
Tel: 909-839-8500  
Tel: 800-729-9010  
Fax: 909-468-2905  
[www.biosensewebster.com](http://www.biosensewebster.com)

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◆ Ideas making a difference



## → Biomed

### Course Objectives

The objective of this program is to provide you with a basic level of technical training to prepare your biomedical staff to perform basic service & repairs on the CARTO® XP EP Navigation System installed at your designated facilities. The Biosense Webster Biomedical Engineering Program is a 3-day course focusing on the hardware and software components of the CARTO® XP EP Navigation System, and Stockert 70 RF Generator.

### Course Location

The Biomedical Engineering Program is held at the Endo-Surgery Institute, located in Cincinnati, Ohio. This world-class education facility provides a forum for clinical and healthcare professionals to exchange information and ideas.

### Accommodations

The Embassy Suites, Blue Ash  
4554 Lake Forest Drive  
Cincinnati, Ohio 45242  
513-733-8900

The admission fee for the Biomedical Engineering Program is \$5,000 per participant, and includes travel to the Ethicon Endo-Surgery Institute, hotel accommodations, and meals throughout your stay. Tools required for testing your Biosense Webster equipment can be purchased for an optional \$3,500, in addition to the admission fee. Upon completion of this training program, the participant will receive certification effective for one year. There is an annual re-certification fee of \$2,500, which would cover the cost of training on new technology or updated service strategies.

Please note that the Biomed Additional Training Tools can only be purchased as part of the Biomedical Engineering Program Training Package, and cannot be sold separately.

### Registration

To register for this educational workshop, please visit [BiosenseWebster.com](http://www.biosensewebster.com) and register under the Professional Education section, or go directly to:  
<http://www.biosensewebster.com/professionalEducation/workshop-registration.aspx>

A purchase order # must be referenced on the form in order to process registration. Confirmation of enrollment will be sent via method indicated once payment has been received.

### Agenda

#### Day One

8:00 – 9:00 am  
Introduction and Welcome  
Biomedical Engineering Course Outline  
Biosense Webster Company Background  
Biosense Webster Customers (Internal/External)  
Medical Device Reporting  
Biosense Webster Required Documentation  
FSR, STR

9:00 – 10:00 am → → →  
Introduction to EP  
Heart Anatomy  
Arrhythmia Management  
The EP Study

10:00 – 10:15 am Break

10:15 am – 12:00 pm  
EP Lab Environment  
EP Recorder  
Pacer/Stimulator  
Ablation Generator  
Monitoring System  
Defibrillator  
The role of CARTO® XP System in the EP Study  
System Interfaces

12:00 – 1:00 pm Lunch Break

1:00 – 3:00 pm  
Concept of CARTO® Navigation System  
CARTO® XP System Hardware  
Biosense Webster Catheters

3:00 – 3:15 pm Break

3:15 – 4:45 pm  
CARTO® XP System Software Overview

4:45 – 5:00 pm  
EP/CARTO® XP System Concepts Q&A Session

5:00 pm Adjourn

#### Day Two

8:00 – 8:20 am  
Morning Test & Review

- Basic EP
- Terminology
- Role of CARTO® XP System
- Principals of Operation
- Components

8:20 – 10:00 am  
CARTO® XP System Hardware

- Hardware Functionality
- Hardware Architecture
- COM, PIU, LP
- Workstation and Peripherals

10:00 – 10:15 am Break

10:15 am – 12:00 pm  
CARTO® XP System Software

- Software Architecture
- Software Subsystems
- Operation Modes
- Simulator

#### Day Two (continued)

12:00 – 1:00 pm Lunch Break

1:00 – 2:45 pm  
Breakout Hands-On Session

- Group-1: Practicing on hardware components
- Group-2: Practicing on software using simulator and testing tools

2:45 – 3:00 pm Break

3:00 – 4:45 pm  
CARTO® XP System Software Versions  
CARTO® XP System Software Installation  
CARTO® XP System Software Reload  
Hands-On Session

- CARTO® XP System Software Install/Upgrade

4:45 – 5:00 pm  
CARTO® XP System Hardware/Software Q&A

5:00 pm Adjourn

#### Day Three

8:00 – 8:20 am  
Morning Test & Review

- CARTO® XP System Hardware/Software

8:20 – 9:45 am  
Common Problems  
Biosense Webster Tech. Service Approach  
Troubleshooting the CARTO® XP System

- Common Symptoms and Solutions
- Communication COM-PIU
- Administrative Tools
- Log Files, COM Log Files
- File System Structure
- Dell Status Indicators

9:45 – 10:00 am Break

10:00 am – 12:00 pm  
Hands-on Session

- Win 2000 Tools
- Hardware Troubleshooting Tools
- Software Troubleshooting Tools
- Flash Disk Reload

12:00 – 1:00 pm Lunch Break

1:00 – 3:00 pm  
Mechanics of RF Ablation  
Stockert Generator  
Functionality  
Interface with CARTO® XP System and EP Recorder  
SW Reload

3:00 – 3:15 pm Break

3:15 – 4:45 pm  
Troubleshooting of Noise and Lab HW Environment  
CARTO® XP System to the EP Recorder

- Pacer Interfaces
- Review of Different Troubleshooting Approaches

4:45 – 5:00 pm  
Course Review  
Open Q&A Session

5:00 pm Adjourn