

SPC St. Petersburg College

Biomedical Engineering Technology Program

Advisory Committee Meeting Minutes

February 21st 4:30-5:45 pm

Members In Attendance

Andrea Falvey, Carlos Villifane, David Detmer, Justin Bushko, Sumita Mitra, Dee Mortellaro, Dennis David, Bill Hart, Marc Nadeau, Natavia Middleton, Jim Ruggiero, Lara Sharp, Sumita Mitra

Members Absent

Mary McCoy, Jan Flegeau, Chris Gahles, Ingrid Grattidge, Mary Ann Greenawalt, Darrin Horst, Janice Loppe, Bill Mazurek, James Moore, Randell Orner, Dave Outlaw, Victoria Sed

Welcome:

- 1. Introductions – Name and Business**
- 2. Presentation of Lab**

Introduction to Badging/Credentialing by Lara Sharp

Identified Key BMET Skills – Both from the manufacturing perspective and hospital/repair perspective. Included in Appendix A.

Identified ways to measure and satisfy needed industry skills

Adjournment at 5:45pm

Appendix A

Identify the top 5 medical devices that you would want an entry level BMET to be able to perform preventative maintenance on.

- Infusion pumps – Describing step by step, basic things to check, what's a peristaltic movement, describe/identify model and color of popular pumps, talk intelligently about it. What are the ramifications if it does not work. Show you a video that they have done it. Older can often be better,
- SED's
- Vital sign monitors -
- Feeding pumps -
- Defibrillators -
- Electrical Safety tester/Ohms Law
- Why are you testing it for electrical measure, what does occlusion mean, air in line,

Identify and describe the top 3 repairs you would want or expect an entry level BMET to be able to perform. Examples include: replace batteries on an infusion pump and...

- Replace a plug/Basic Wiring/Hospital Grade plug
- Wire strippers/RJ 45 Crippler/ Crippers/Soldering
- SED's
- Physical parts of infusion pump
- Battery replacement
- Vital signs board replacement/
- 3M touchpads

Describe the types of computer repair skills that are expected for an entry level BMET?

- Power supply
- Operation system
- Format harddrive
- Reinstall software
- Putting together a computer

Describe the computer networking knowledge expected of an entry level BMET.

- Understanding computer terms
- Mac address/IP address/New IP address standards
- How to ping
- Configure
- Wireless router

Identify the top 5 medical devices that you would want a technician to know how to connect to a network.

- Connect telemetry
- Infusion pump
- Switch (what it looks like /Ports/Manage)
- Server
- Nurse Call

What do you consider to be the top 3 most needed skills in medical device security

- HL7
- HIPPA – familiar
- Malware
- Phishing
- Ransomware
- Secure medical device against outside connections
- Networking
- Security HL7
- Dicom
- Pacs
- MDS2