



ETA[®] International Biomedical Certifications



Biomedical Electronics Technicians (BMD)

Biomedical electronics technicians are expected to obtain knowledge of the principles of modern biomedical techniques, the proper procedure in the care, handling and maintenance of biomedical equipment and to display an attitude/behavior expected of an electronics technician who works in a hospital or healthcare environment. **\$80**

The ETA Biomedical Electronics Technician (BMD) certification exam covers topics such as:

- The Human Nervous System
- Medical Electrodes
- Cables and Cabling
- Computer
- Transducers
- Medical Electronics Safety
- Hemodialysis Equipment
- Networking
- Medical Ultrasound Instruments
- Mathematics
- Building Wiring
- Optical Wiring
- Radiology
- Test Equipment and Tools
- Troubleshooting
- Operating Room Familiarization
- Instrumentation-Respiratory
- Instrumentation-The Medical Laboratory
- Electrosurgery Generators
- Intensive and Coronary Care Units
- Cardiac Support System
- Bioelectric Amplifiers

Biomedical Imaging Equipment Technicians (BIET)

A Biomedical Imaging Equipment Technician should be familiar with the following topics: anatomy, medical terminology, computers, electro/mechanical safety, picture archive communication system, diagnostic ultrasound equipment, building wiring, basic radiographic equipment, film processing, test equipment, magnetic resonance imaging, computed tomography, nuclear medicine, online pharmacy, codes and regulations, troubleshooting, radiation safety, radiation physics, and linear accelerators. **\$80**

The certified BIET must be knowledgeable and have abilities in the following technical and human relations areas:

- Anatomy
- Medical Terminology
- Computer
- Electro/Mechanical Safety
- Picture Archive Communication System
- Diagnostic Ultrasound Equipment
- Building Wiring
- Basic Radiograph Equipment
- Film Processing
- Test Equipment
- Magnetic Resonance Imaging
- Computed Tomography
- Nuclear Medicine
- Codes and Regulations
- Troubleshooting
- Radiation Safety
- Radiation Physics
- Linear Accelerators