

Introduction to Medical Equipment Maintenance

Course Description

This five-day course will introduce the student to the various types of Medical Equipment by review and explanation of: human anatomy, equipment operation/application, circuit/block diagrams, preventive maintenance inspections, performance testing, and troubleshooting tips.

Students will be responsible for: Medical equipment applications and operations, circuit block diagrams, basic circuit schematics, circuit component identification, preventive maintenance tests, performance tests and limits, electrical safety tests and limits, basic equipment troubleshooting, neatness/quality of work, and all material reviewed in the course.

Who Should Attend

Those responsible for the service, maintenance and/or management of clinical, biomedical and diagnostic medical equipment will benefit from attendance at this comprehensive course as will anyone interested in enhancing their capabilities and services to their customers.

Day 1

- Introduction to Medical Equipment Maintenance
- Safe Medical Devices Act of 1990 (SMDA)
- Electrical Safety & References
- Cardiovascular and Respiratory Systems

Day 2

- ECG Monitors
- Defibrillators
- Pacemakers
- Pulse Oximeters

Day 3

- Blood Pressure and Cardiac Output
- Infusion Devices
- Ventilators and Respiratory Equipment
- Sterilizers and Central Processing

Day 4

- Surgical Equipment and Systems
- Electrosurgical Units
- Anesthesia Gas Machines
- Surgical Scopes
- General Medical Equipment
- Clinical Laboratory

Day 5

- Imaging Systems
- Imaging Systems - XRay Tube
- Imaging Systems - XRay Generation
- Imaging Systems - XRay Control
- Imaging Systems - XRay Circuit
- Customer Satisfaction Skills