

Excel with 7900 SmartVent Syllabus

Equipment to be taught:

- Modulus SE, Excel SE, Excel & Excel MRI Machines
- Gas Management System (GMS) Absorber
- Anesthesia Gas Scavenging Receiver
- 7900 SmartVent

(7000 & 7800 Ventilators are available as separate classes.)

Class Length: 8:00 am to 4:00 pm, Monday through Friday

Breaks: One 15 minute break in the morning and one 15 minute break in the afternoon.

Lunch: Approximately 30 minutes at the Datex-Ohmeda Administration Building Cafeteria.

Transportation: Students (Customers) will be picked up at the hotel at 7:30 am and returned to the hotel after class. Datex-Ohmeda Service Reps will have use of the vans.

Students are expected to:

1. Be prompt so class can proceed as scheduled.
2. Use tools and equipment properly.
3. Behave professionally.
4. Rotate partners during hands-on sessions.
5. Participate in all aspects of the class.
6. Take notes.
7. Use the Study Guide to review daily class information.
8. Follow all safety procedures.

Objectives:

At the end of the class students should be able to:

1. Explain the operation of all the Anesthesia equipment.
2. Locate, identify, and explain the functions of the anesthesia machine sub-systems.
3. Perform adjustments and calibrations.
4. Perform Planned Maintenance Procedures.
5. Troubleshoot and resolve equipment problems
6. Pass a written and practical exam with a minimum score of 70%.
(Written = 80%. Practical = 20 %)

Class outline:

1. Introductions
2. Reference/ Training Materials for Class
3. Safety
4. Excel Machines

History:

Excel, Excel MRI, Excel SE & Modulus SE
Anesthesia Systems

Overview

Pneumatic System

Calibrations and Adjustments

Electrical/ Electronics System

Planned Maintenance Procedure

5. Gas Management System (GMS) Absorber
 - Overview
 - System Components & Flow Path
 - Disassembly/ Rebuild/ Reassembly
 - Planned Maintenance Procedure

6. Anesthesia Gas Scavenging Receiver
 - Overview
 - System Components & Flow Path
 - Planned Maintenance Procedure

7. 7900 Ventilator
 - History
 - Anatomy and Physiology
 - Overview
 - Pneumatic System
 - Annual Pneumatic Maintenance Procedure
 - Electronic System
 - Planned Maintenance Procedure

8. Complete Anesthesia System PM
9. Troubleshooting Equipment
10. Practical & Written Exam
11. Evaluations

Evaluation Methods:

1. Post tests 70% (80% written/20% practical) required to receive 3.25 CEU's
2. Students fill out an Instructor/ Course Evaluation.

Reference Materials:

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1. Syllabus
2. Study Guide
3. Handouts
4. Operation & Maintenance Manuals
5. Service Manuals
6. Planned Maintenance Procedures