

5250 Respiratory Gas Monitor (R.G.M.) Syllabus

Equipment to be taught: 5250 R.G.M.

Class Length: Three day class beginning at 8:00 each morning.

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

Lunch: One hour will be allotted for lunch.

Transportation: Students will be picked up at the designated hotel at 7:30 and returned to the designated hotel after class in the G.E. Medical training van. Students may choose to drive their own vehicle to the training center.

Objectives:

Upon successful completion of the class, the student should be able to:

1. Properly set up and operate the equipment using different software revisions and hardware configurations.
2. Identify and correct problems that result from operator error.
3. Identify all circuit boards and list major functions of each board.
4. Identify and explain the operation of all the major components in the pneumatic system.
5. Perform Planned Maintenance (P.M.s) correctly using Datex-Ohmeda procedures.
6. Use the service manual to perform various adjustments and calibrations.
7. Diagnose and resolve equipment "BUGS".
8. Install a new tubing kit in a monitor.
9. Pass a written exam with a minimum score of 70%.

Students are expected to:

1. Be prompt.
2. Use tools and equipment properly.
3. Be professional.
4. Participate in all aspects of the class.
5. Take notes.
6. Use the Take Home Study Guide to emphasize class instruction.
7. Follow all safety procedures.
8. Wear name tags.

Course outline:

NOTE: Order of presentation may vary from written outline.

1. Introduction
2. Safety
3. Different monitor configuration
 - a. SpO₂
 - b. Agent or non-agent
 - c. Software revision level
 - d. Ability to interfacing with external equipment
 - e. Pre-TUV vs TUV vs CE
4. Operation of monitor
 - a. Software differences
 - b. Commonly used screens
 - c. Set up of monitor with external sensors
 - d. Common operator errors
5. Disassembly of monitor
6. Pneumatics
 - a. Pneumatics path - measurement line vs sump line
 - b. Bench operation
 - c. Install tubing kit
7. Electronics / schematics
 - a. Overall wiring diagram
 - b. Power supply
 - c. Signal processing board
 - d. Measurement board
 - e. Motherboard
 - f. Display assembly
 - g. Minx board
 - h. Pneumatic interface board
8. Reassembly and check out of monitor
9. Calibration of monitor
 - a. Sample flow
 - b. Barometric pressure
 - c. PAW
 - d. Gas analyzer
10. Planned Maintenance of monitor
11. Troubleshooting
12. Written test on material presented
13. Written evaluation on instructor and course

Evaluation Methods:

1. Post test (open book) 70% required pass course and receive 2.1 CEU's.
2. Students will be provided with an instructor / course evaluation.

Reference Material:

1. Syllabus
2. Study guide
3. Handouts
4. Operation and Maintenance Manuals
5. Service Manuals
6. Class notes
7. Planned Maintenance Procedures