

Training guide – basic

Flow anesthesia system

The following steps are based on the primary operating functions for anesthesia machines (ISO 80601-2-13). By following this training guide the trainer will assure that all users get the same introduction to the basic and essential functions of the Flow anesthesia machines.

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| 1 Start the anesthesia system from power off | Draw attention to the ON/OFF switch. Allow user to engage and power device “ON” from an off-state. |
| 2 Connecting the patient breathing circuit to the anesthesia system | <p>Review all of the individual connection points (insp., exp., manual bag, etc.) on the cassette, and allow the trainee to connect the complete patient circuit.</p> <p>Demonstrate where the water trap is located, and show how to interact with it.</p> <p>Attach the sampling line.</p> <p>Instruct the trainee to disconnect and replace the CO2 absorber and vaporizers.</p> <p>If an Additional Fresh Gas Outlet is a selectable option, elaborate on utilization into great detail, while emphasizing the fact that Emergency Ventilation does not support the AFGO function.</p> |
| 3 Perform SCO (system checkout) | Ask user to navigate through schematic overview, making evident that they understand each and every required interaction during SCO. |
| 4 Suction and aux O₂ | <p>Activate/Deactivate suction and Auxillary O₂.</p> <p>Show how to increase/decrease the suction’s pressure.</p> |
| 5 Standby view | <p>Stress that gas or ventilation is not delivered until you press “Start case”.</p> <p>Display the Standby screen, showing how to initiate the different checks from this screen.</p> <p>Ask the user how they normally perform manual/automatic leakage checks, imitating the differences by applying both the same and differing basic procedures with Flow.</p> <p>Discuss the potentials to pre-set ventilation mode and gas settings.</p> <p>Demonstrate the selection of Flows two Patient Categories, and the associated ramifications on alarm limits within each category.</p> |
| 6 Setting fresh gas flow and concentration | <p>Go through membrane buttons, while also increasing/decreasing/confirming settings with the rotary knob.</p> <p>Clarify why you can’t deliver 100% O₂ and agent on a Flow.</p> |

7	Manually ventilating the patient	Exhibit main APL-valve function – making certain to point out that it is electronically controlled, and WILL NOT be functional in the very rare circumstances of a machine failure.
8	Setting ventilation control parameters	Show direct access buttons and ventilation settings tab.
9	Switching between ventilation modes	Have user choose or change to preferred ventilation mode.
10	Setting agent concentration	Explain how the vaporizer is activated. Explain how to toggle between channeled anesthetic volatiles. Demonstrate how to fill the vaporizer.
11	Gas concentrations measurements	Highlight where the gas analyzer measurements are revealed on screen, and how to distinguish from inspiratory (VTi) and expiratory (VTe), etc.
12	Ventilation parameter measurements	Explain where the ventilation parameter measurements are shown on screen and what they represent.
13	Alarm limits	Simulate an alarm event, and show how the active alarms are presented on screen. Discuss priority system and stacking. Demonstrate the variety of ways to access the Alarm Profile window. Show how to change alarm limits. Explain the differences in alarm limits due to patient category selection.
14	End case	Guide user to end a patient case, and review the implications of choices displayed within the "End case window".
15	Emergency ventilation	Describe and showcase the function in detail, providing special attention to: a. NO anesthetic agent delivery possible during emergency ventilation feature. b. The difference between Emergency Ventilation APL-valve (mechanical, stand-alone) and the electronic (normal) APL. Once more, if AFGO outlet is available, reemphasize that it is not a usable outlet during emergency ventilation.
16	Battery Back-up	If power main is interrupted, approximately 90 minutes (fully charged) of internal battery backup and normal operation will prevail. Demonstrate indicator light transformation on front of device by disconnecting/reconnecting power plug. During this, point out countdown and associated alarm notification located on the interface. Be sure to note the 18 minute alarm, medium priority alarm, and the 3 minute alarm. With regard to the 3 minute alarm, show that it increases severity to a high priority alarm notification.