



## Operator competency checklist – Hamilton-C1/ T1/ MR1 ventilators

	Dorformonos oritorio	Comp	oetent	Comments
	Performance criteria	Yes	No	Comments
Physica	al components		1	
1	Identify and explain:  a. High pressure oxygen inlet b. Air intake c. 240V (mains) power connection d. Battery compartment (T1 only)			
2	Identify and explain:  a. Inspiratory port  b. Expiratory valve housing  c. Connections for flow sensor  d. Connection for pneumatic  nebuliser			
3	Identify and explain:  a. Power/ Standby key b. Battery charge indicator c. Day/ Night key d. Screen Lock/ Unlock key e. Manual Breath/ Inspiratory Hold key f. O2 Enrichment key g. Print Screen key h. Nebulizer On/Off key i. Press & Turn knob			
4	Demonstrate:			
Attach	and prepare breathing circuit	l.		
5	Identify (using customer's preferred circuit):     a. Inspiratory hose     b. Expiratory hose     c. Flow sensor     d. Flow sensor tubing     e. Flow sensor calibration adapter			
6	Demonstrate:     a. Install expiratory valve     b. Connect inspiratory and expiratory hoses     c. Connect flow sensor and tubing     d. Secure calibration adapter			
7	Explain:  a. How frequently Tightness Check and Flow sensor calibration should be performed  b. How frequently O2 calibration should be performed			
8	Demonstrate:     a. Tightness Check     b. Flow sensor calibration     c. O2 calibration			
9	Demonstrate: a. Troubleshoot failed Tightness Check			
10	Explain:  a. The correct position in which a combined HME/ Viral/ Bacterial filter should be fitted for use with "dry" circuits  b. The correct position in which Viral/ bacterial filters should be fitted for use with "wet" circuits			





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Navigat	ing the ventilator LCD display in Standby	
	Demonstrate:	
11	<ul> <li>a. How to adjust screen brightness</li> </ul>	
	<ul> <li>b. How to adjust the volume of</li> </ul>	
	ventilator audio tones	
4.0	Explain:	
12	The location and function of input	
	power status indicators	
13	Explain:	
Dropara	a. How to enable/ disable sensors the ventilator for use on a patient	
Frepare	Explain:	
14	a. The function of Set-Ups	
	Demonstrate:	
15	a. Input of patient details	
	Explain	
	a. The similarities and differences	
	between (S)CMV+ (APV-CMV) and	
	SIMV+ (APV-SIMV)	
	<ul> <li>b. The similarities and differences</li> </ul>	
16	between PCV+ and PSIMV+	
	c. SPONT	
	<ul> <li>d. The similarities and differences between NIV and NIV-ST</li> </ul>	
	e. The basics of ASV	
	f. Enabling/ disabling "Backup"	
	(apnea ventilation)	
	Demonstrate:	
	<ul> <li>a. Use of "Main" (shortcut) ventilator</li> </ul>	
17	controls	
17	<ul> <li>b. Selecting ventilation mode</li> </ul>	
	<ul> <li>c. Changing and applying settings for</li> </ul>	
	new mode	
18	Demonstrate:	
Novino	a. Commencing ventilation	
Navigat	ing the ventilator display in operation	
19	Explain: a. Main Monitoring Parameters	
13	(MMPs)	
	Demonstrate:	
20	a. Location of measured parameters	
	via Monitoring key	
	Demonstrate:	
21	<ul> <li>a. Locating and navigating other</li> </ul>	
	measured values	
	Demonstrate:	
22	a. Enabling and disabling Screen	
1	Freeze b. Use of cursor	
	Demonstrate:	
	a. Displaying alternate waveforms	
	b. Displaying Trends	
23	<ul> <li>c. Displaying Loops and capture of</li> </ul>	
	reference loops	
	d. Displaying graphics	
	e. Display ASV Graph	
24	Explain:	
24	a. Use of Events list and Buffer (i)	
	Demonstrate:	
25	<ul> <li>a. How to export ventilator logs</li> </ul>	
	<ul> <li>b. How to export screenshots via the</li> </ul>	
	"Print" key	





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Alarms		
	Demonstrate:	
	a. Locate and adjust alarm limits	
26	b. Locate alarm bar and messages	
	c. Where Technical Events are	
	displayed	
	Explain:	
27	a. Differentiating Alarm Priority	
	<ul> <li>b. Breakthrough alarm behaviour</li> </ul>	
	Explain:	
28	<ul> <li>a. Significance of Patient settings in</li> </ul>	
	optimizing alarm limits	
	Explain:	
	Adjusting the maximum pressure	
	(Pmax) threshold (red line)	
00	b. Adjusting the pressure limit	
29	threshold (blue line) c. The behaviour of the ventilator	
	c. The behaviour of the ventilator when the Pmax is reached	
	d. Pressure limiting behaviour in	
	adaptive ventilation modes	
	Explain:	
	a. The correct position of the flow	
	sensor in the circuit to minimize the	
30	likelihood of liquid draining into the	
30	flow sensor tubing	
	b. The fail-safe behaviour of the	
	ventilator in the event of a flow	
	sensor failure	
24	Explain:	
31	The difference between "Apnea     Ventilation" and Apnea alarms	
High Fl	ow Oxygen Therapy	
ingiiik	Explain:	
	a. What must be done to change from	
32	invasive or non-invasive ventilation	
	modes to High Flow O2 Therapy	
	Demonstrate:	
33	<ul> <li>a. Changes to breathing circuit</li> </ul>	
00	configuration required when	
	changing to High Flow O2 Therapy	
Use of I	Hamilton-MR1 in the MRI suite (Hamilton-MR	?1 only)
	Explain:	
34	a. What is the maximum magnetic field strength in which Hamilton-	
34	MR1 can safely be operated?	
	b. The use of the TeslaSpy function	
35	Demonstrate:	
	a. Operation of MR1 trolley brake	
	b. Operation of transport adapter on	
	MR1 trolley (if applicable)	
	Hospital/ customer name	Date
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Hospital/ customer name	Date
Clinical user name	Clinical user signature
Assessor name	Assessor signature