



## Trilogy 200™ Learning Objectives for Clients and Caregivers

Client Name: \_\_\_\_\_ D.O.B. \_\_\_\_\_ (m/d/y)  
 Caregiver(s) Present: \_\_\_\_\_ VEP asset #: \_\_\_\_\_  
 Clinical Educator: \_\_\_\_\_ Date: \_\_\_\_\_ (m/d/y)

Goal:

To develop knowledge, understanding, and skills related to therapy with the Trilogy 200™ ventilator

**Clinical Educator Objectives:**

- To explain the rationale for ventilation and alarms
- To demonstrate the set-up, maintenance, and troubleshooting with the Trilogy 200™ ventilator
- To assess client and caregivers understanding of the information

<b><u>Learning Outcome: The learner(s) will be able to:</u></b>	Client	Clinician	N/A
<b>1. Explain why ventilator therapy is needed</b>			
<b>2. Identify when therapy is to be used each day</b>			
<b>3. List any symptoms the client may experience if therapy is not used as pre-scribed</b>			
<b>4. Identify the front panel features on the ventilator and describe the purpose and use of each including:</b> <ul style="list-style-type: none"> <li>• Display screen</li> <li>• Start/stop button</li> <li>• Alarm indicator and audio pause button</li> <li>• Up/down button</li> <li>• Left and right buttons</li> </ul>			

<b>Learning Outcome: The learner(s) will be able to:</b>	Client	Clinician	N/A
<p><b>5. Identify the visual indicators that appear on the front panel and describe the purpose of:</b></p> <ul style="list-style-type: none"> <li>• AC power LED</li> <li>• Keypad backlight LEDs</li> <li>• Red alarm LED</li> <li>• Yellow alarm LED</li> </ul>			
<p><b>6. Identify the ventilator side and rear panels and features including:</b></p> <ul style="list-style-type: none"> <li>• AC power inlet</li> <li>• Breathing circuit connection</li> <li>• Exhalation porting block</li> <li>• Secure Digital (SD) card slot</li> <li>• External Battery Connector (DC power inlet)</li> <li>• Oxygen (O<sub>2</sub>) inlet connector</li> <li>• Air inlet and filter</li> <li>• Detachable battery pack slot</li> <li>• Cord retainer</li> </ul>			
<p><b>7. Power Supply Demonstrate how to:</b></p> <ul style="list-style-type: none"> <li>• Connect ventilator to power supply</li> <li>• Identify when ventilator is using backup battery: Internal battery  <div style="margin-left: 150px;">Detachable battery</div> <div style="margin-left: 150px;">External battery</div> </li> <li>• Connect the ventilator to the backup external battery</li> <li>• Charge and monitor the external battery</li> <li>• Explain what to do if there is a power failure</li> </ul>			
<p><b>8. Demonstrate how and identify when to replace the air inlet filter:</b></p>			

Learning Outcome: The learner(s) will be able to:	Client	Clinician	N/A
<p><b>9. List the prescribed ventilator settings and explain the purpose of each as they pertain to client including:</b></p> <ul style="list-style-type: none"> <li>• Mode</li> <li>• Respiratory rate (BPM)</li> <li>• Set volumes</li> <li>• Set pressures</li> <li>• Other settings as they pertain to client</li> </ul> <p><b><u>( Trilogy 200™ ventilation parameter templates based on mode and circuit type can be found on the VEP website @ <a href="http://www.ontvep.ca">www.ontvep.ca</a>)</u></b></p>			
<p><b>10. List the alarms set on the ventilator and explain the purpose and the importance of each alarm:</b></p>			
<p><b>11. Have an understanding of the following alarms as they apply to each client and how to troubleshoot the alarms if activated:</b></p> <ul style="list-style-type: none"> <li>• Circuit disconnect alarm</li> <li>• High and low volume alarms (Vte or Vti)</li> <li>• High and low minute ventilation alarms (Vm)</li> <li>• High and low pressure alarms (LIP and HIP)</li> <li>• High and low respiratory rate alarms (BPM)</li> <li>• Apnea alarm (seconds)</li> <li>• Other alarms as set on clients ventilator</li> </ul> <p><b><u>(The “Trilogy 200© Alarm Recognition and Troubleshooting Guide for Clients and Caregivers” can be found on the VEP website @ <a href="http://www.ontvep.ca">www.ontvep.ca</a>)</u></b></p>			
<p><b>12. Identify each of the parts of the circuit and explain the purpose of each including:</b></p> <ul style="list-style-type: none"> <li>• All parts of the circuit including humidifier if applicable</li> <li>• Any circuit adjuncts placed in the circuit for use including connectors, inline speaking valves, HME’s, MDI connectors, inline suction if used</li> <li>• Interfaces such as masks, mouthpiece, or tracheostomy tube</li> </ul>			

<b><u>Learning Outcome: The learner(s) will be able to:</u></b>	Client	Clinician	N/A
<b>13. Demonstrate how to disassemble and reassemble the circuit, humidifier and any adjuncts placed in the circuit.</b>			
<b>14. Demonstrate how to find leaks in the circuit and to troubleshoot leaks and alarms including:</b> <ul style="list-style-type: none"> <li>• Identifying the clients “leak rate”</li> <li>• Identifying when the “leak rate” is unacceptable</li> <li>• How leaks can affect ventilation therapy</li> <li>• Methods for reducing the leak</li> </ul>			
<b><u>For Passive Circuits:</u></b>			
<b>15. Identify and explain the function of the exhalation port (passive circuit)</b>			
<b>16. Demonstrate how to visually inspect and determine adequate flow through the exhalation port and the:</b> <ul style="list-style-type: none"> <li>• Importance of having the port in place and patent</li> </ul>			
<b>17. Demonstrate where to place the exhalation port in the circuit</b>			
<b>18. Demonstrate how to clean the exhalation port</b>			
<b>19. Demonstrate how to connect the circuit to the client interface (mask, tracheostomy tube, mouth piece)</b>			
<b>20. <u>For mask users:</u></b> <ul style="list-style-type: none"> <li>• Identify parts of the mask</li> <li>• Demonstrate how to connect the mask to the tubing</li> <li>• Demonstrate how to apply mask and adjust mask for fit, comfort, and minimal leak</li> <li>• Demonstrate what to do if air leaks around the mask</li> <li>• List ways to relieve irritation, redness, or sore spots when using a mask</li> </ul>			

<b><u>Learning Outcome: The learner(s) will be able to:</u></b>	Client	Clinician	N/A
<b><u>For Active or Active-Flow Circuits:</u></b>			
<b>21. Explain how the exhalation valve works and its importance</b>			
<b>22. Demonstrate where to place the exhalation valve in the circuit</b>			
<b>23. Demonstrate where to connect the exhalation valve line and proximal pressure line to the ventilator</b>			
<b>24. Demonstrate how to disassemble, clean, and reassemble the exhalation valve assembly and tubings</b>			
<b>25. Demonstrate how to perform an “Active Circuit Leak Test” including:</b> <ul style="list-style-type: none"> <li>• The importance of the passing of the test</li> <li>• The importance of recognizing when the test fails</li> <li>• How to troubleshoot a circuit that doesn’t pass the leak test</li> </ul> <p><u>(a video and accompanying guide on how to perform the “Active Circuit Leak Test” can be found on the VEP website @www.ontvep.ca)</u></p>			
<b>26. Explain the importance of:</b> <ul style="list-style-type: none"> <li>• Having the back-up ventilator available and ready to use</li> <li>• Testing and having readily available a manual ventilation device</li> <li>• Removing therapy in the event of a confirmed or suspected equipment malfunction and placing client on backup device</li> <li>• Contacting the VEP in the event of a confirmed or suspected equipment malfunction</li> </ul>			

<b><u>Learning Outcome: The learner(s) will be able to:</u></b>	Client	Clinician	N/A
<b>27. State the type of water to use in the humidifier and describe how to make distilled water “sterile”</b>			
<b>28. Explain the purpose and function of the humidifier and humidification including:</b> <ul style="list-style-type: none"> <li>• Troubleshooting humidifier alarms</li> </ul>			
<b>29. Explain why not to drain the water from the circuit tubing back into the humidifier</b>			
<b>30. Explain how to disassemble and clean the reusable humidifier jar</b>			
<b>31. Explain how to use and clean temperature probe and temperature probe adapter for Fisher and Paykel™ humidifier</b>			
<b>32. Explain how to use and clean the water bag</b> <u>( an accompanying guide can be found on the VEP website @ <a href="http://www.ontvep.ca">www.ontvep.ca</a>)</u>			
<b>33. Explain the cleaning/replacement schedule for ventilator accessories</b> <b>Including:</b> <ul style="list-style-type: none"> <li>• Circuit components</li> <li>• Humidifier and humidifier accessories</li> <li>• Client interface (mask, tracheostomy tube, mouthpiece)</li> <li>• Filters</li> <li>• Circuit adjuncts as applicable such as inline speaking valves, connectors, inline suction, MDI connectors, HME’s</li> </ul>			
<b>34. Identify the home respiratory care company that will provide the respiratory supplies</b>			
<b>35. Identify what supplies or equipment is supplied by the VEP</b>			
<b>36. List names and phone numbers of persons to contact for:</b> <ul style="list-style-type: none"> <li>• Medical emergencies</li> <li>• Equipment emergencies</li> <li>• Power emergencies</li> </ul>			

**Disclaimer**

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