

# COLD CHAIN MANAGEMENT COM12120 – SESSION PLAN

**Title: COM12120 - COLD CHAIN MANAGEMENT**

**Time: 40 MIN**

**Learning Outcomes:**

By the end of this session participants will be able to:

1. State the correct storage temperature for vaccines
2. Identify the correct storage configuration for their vaccine refrigerators
3. Identify, act upon and escalate any suspected Cold Chain breach
4. Perform temperature monitoring for their vaccine refrigerator according to policy

**Resource List**

- Laptop /projector
- Cold Chain PPT
- Cold Chain Sign on sheet
- 'Strive for 5' 2<sup>nd</sup> edition
- Access to medication / vaccine refrigerator, data logger

Time	Topic	Content	Program activities	Resources
2 mins	<ul style="list-style-type: none"> <li>• Welcome</li> <li>• Sign on</li> </ul>	<ul style="list-style-type: none"> <li>• Welcome participants</li> <li>• Introduce self – name and title</li> </ul>	<ul style="list-style-type: none"> <li>• Presenter to welcome participants</li> <li>• Ensure all participants have signed on</li> </ul>	<ul style="list-style-type: none"> <li>• Laptop /projector</li> <li>• Sign on sheet</li> <li>• <b>PPT Slide 1</b></li> </ul>
	Introduction of session	<ul style="list-style-type: none"> <li>• Discuss the session structure aims of the Cold Chain Management and learning outcomes</li> </ul>		<ul style="list-style-type: none"> <li>• <b>PPT Slides 2-3</b></li> </ul>
5 min	Discussion of the Cold Chain	<ul style="list-style-type: none"> <li>• What is the Cold Chain</li> </ul>		<ul style="list-style-type: none"> <li>• <b>PPT Slides 4</b></li> </ul>
		<ul style="list-style-type: none"> <li>• What is a Cold Chain Breach</li> </ul>		<ul style="list-style-type: none"> <li>• <b>PPT Slides 5</b></li> </ul>
		<ul style="list-style-type: none"> <li>• Why is Cold Chain Management so Important</li> </ul>		<ul style="list-style-type: none"> <li>• <b>PPT Slide 6</b></li> </ul>
		<ul style="list-style-type: none"> <li>• Discussion of the impacts of a cold chain breach</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Key Question:</b> How would you feel if, as a mother of a newborn, you got a call from the public health unit telling you to revaccinate your baby?</li> </ul>	<ul style="list-style-type: none"> <li>• <b>PPT Slides 7</b></li> </ul>
10 min	Vaccine Storage	<ul style="list-style-type: none"> <li>• Principles of safe vaccine storage management</li> </ul>		<ul style="list-style-type: none"> <li>• <b>PPT Slides 8</b></li> </ul>
	Refrigerator configuration	<ul style="list-style-type: none"> <li>• Photograph of a well stocked fridge</li> <li>• Signage for bottom shelf</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss key points</li> <li>• Spacing</li> <li>• Position of data logger</li> <li>• No vaccines on bottom shelf</li> <li>• Importance of checking where the vaccine is positioned before opening the door</li> </ul>	<ul style="list-style-type: none"> <li>• <b>PPT Slides 9</b></li> <li>• <b>PPT Slide 10</b></li> </ul>
	Refrigerator monitoring	<ul style="list-style-type: none"> <li>• Monitoring equipment</li> <li>• Monitoring process</li> </ul>		<ul style="list-style-type: none"> <li>• <b>PPT Slide 11</b></li> <li>• <b>PPT Slide 12</b></li> </ul>

		<ul style="list-style-type: none"> <li>Monitoring chart</li> </ul>	<ul style="list-style-type: none"> <li>Show image of chart</li> <li>Discuss example of completed chart and where and how to document including instances of stock delivery</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slides 13-14</b></li> </ul>
5 min	Data Loggers	<ul style="list-style-type: none"> <li>What is a data logger</li> </ul>	<ul style="list-style-type: none"> <li>Hanwell data monitoring system</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 16</b></li> </ul>
		<ul style="list-style-type: none"> <li>Alarms</li> </ul>	<ul style="list-style-type: none"> <li>Acknowledge</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slides 17-18</b></li> </ul>
		<ul style="list-style-type: none"> <li>Alarms</li> </ul>	<ul style="list-style-type: none"> <li>Restting</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slides 19-20</b></li> </ul>
		<ul style="list-style-type: none"> <li>Alarms</li> </ul>	<ul style="list-style-type: none"> <li>Troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT slide 21</b></li> </ul>
		<ul style="list-style-type: none"> <li>Example of data logging for a stable refrigerator</li> </ul>	<ul style="list-style-type: none"> <li>Discuss minor fluctuations within acceptable range</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 22</b></li> </ul>
		<ul style="list-style-type: none"> <li>Example of data logging where a breach has occurred</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the breach start and end times</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slides 23-24</b></li> </ul>
10 min	Cold Chain Breach	<ul style="list-style-type: none"> <li>Activation of Cold Chain Breach Escalation pathway</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 25</b></li> </ul>
		<ul style="list-style-type: none"> <li>Escalation pathway, roles and responsibilities for Switchboard Operators</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the escalation pathway for both in-hours and out-of-hours back to base data logger alarm activation</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 26-27</b></li> </ul>
		<ul style="list-style-type: none"> <li>Roles and responsibilities for Other staff</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the escalation pathway for the ward, pharmacy and Public Health Unit roles</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slides 28</b></li> </ul>
		<ul style="list-style-type: none"> <li>Actions</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the steps to take when there is a power outage to the vaccine refrigerator</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 29</b></li> </ul>
			<ul style="list-style-type: none"> <li>Discuss Quarantine sign placement</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 30</b></li> </ul>
		<ul style="list-style-type: none"> <li>Common issues leading to Cold Chain Breaches</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the issues and problem solve each one <ul style="list-style-type: none"> <li>Avoid overstocking, rotate stock, use shortest expiry dates first</li> <li>Consistency with data loggers across the district, reducing number of fridges</li> <li>Staff education on quarantining procedures</li> <li>Correct transportation process between pharmacy and fridge</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 31</b></li> </ul>
	<ul style="list-style-type: none"> <li>Tips to avoid CCB</li> </ul>	<ul style="list-style-type: none"> <li>Discuss tips that all staff can do to reduce CCB</li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 32</b></li> </ul>	
2 min	Summary	<ul style="list-style-type: none"> <li>Summary of key concepts</li> <li>resources</li> </ul>	<ul style="list-style-type: none"> <li><b>Key Questions:</b> <ul style="list-style-type: none"> <li>What is the correct temp range for a vaccine fridge</li> <li>How often is the temperature recorded by staff</li> <li>What do you need to do if there is a CCB</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li><b>PPT Slide 33</b></li> </ul>
5 min	Demonstration	Practical Demonstration	<ul style="list-style-type: none"> <li>Demonstrate processes</li> </ul>	Monitoring process for all ward refrigerators
<b>ON COMPLETION SCAN AND SEND SIGN ON SHEET TO <a href="mailto:CEWD.SWSLHD@SSWAHS.NSW.GOV.AU">CEWD.SWSLHD@SSWAHS.NSW.GOV.AU</a> FOR DATA ENTRY</b>				