COURSE OBJECTIVES

epelas extensio et progressio / authentic e-learning

By the end of this learning event, participants will be able to:

- 1. Define 25 basic terms important in handling time and temperature sensitive pharmaceutical products.
- 2. Given a situation, propose recommendations to improve compliance with "good distribution practice" (GDP) guidelines.
- 3. Given a nonconformance in the transport of pharmaceutical product, analyze data to identify the cause, potential impact to the product, and formulate preventive measures.
- 4. Given a list of elements that could be in a quality agreement, justify five elements you consider to be most beneficial.
- 5. Given an example of an operational component in a pharmaceutical cold chain, differentiate the practices as to whether or not they reduce risks.
- 6. Given a mode of transportation, identify hazards, and assess and identify methods to control the risks to pharma, biopharma, and vaccine products that are consistent with GDP.
- 7. Given a cold chain operation, evaluate which risks require a contingency plan in line with GDP/GSP.
- 8. Given a stock situation with different vaccines, various expiry periods and batches and VVM status, decide which products to be dispatched against a requisition order.
- 9. Create a decision tree for dispatch of vaccines involving all relevant factors.
- 10. Develop an action plan for the successful implementation of a policy change in in-country vaccine distribution.
- 11. Conduct a risk assessment for a given risk question related to temperature monitoring of temperature-sensitive pharmaceutical products in a storage facility.
- 12. Given a mode of distribution in the last mile, assess and control the risks to pharma, biopharma, and vaccine products consistent with GDP.
- 13. Assess and control the risks to pharma, biopharma, and vaccine products in a given power cut situation.
- 14. Given a list of risks and control options, prioritize which risks to reduce first.

- 15. Compare the advantages and disadvantages of a min-max thermometer to other temperature monitoring devices used in the last mile.
- 16. Given a video of someone performing a shake test, evaluate the process followed, the results obtained, and justify whether the vials can be used.
- 17. Conduct a shake test to decide whether a given freeze-sensitive vaccine has been affected by freezing.
- 18. Create a report on the results of a shake test.
- 19. Given two different scenarios of temperature exposure, expiry date, VVM status and opened/unopened multi dose vials, judge whether the vaccines are suitable for use.
- 20. Given a client, conduct critical analysis of the cold chain management system and make recommendations to improve the performance of the system in line with GDP/GSPs.