

Training Course Agenda

PDA EU00189 Best Practices for Glass Primary Containers

W. Europe Summer Time (UTC +2)

11-12 June 2024

Day 1, 11 June 2024		
08:45	Welcome and Introduction Participants' Expectations	
Manufacture and Characteristics of Glass as Primary Packaging Material		
9:00	Glass Science <ul style="list-style-type: none"> • Chemical structure • Physical properties • Different glass types in the pharmaceutical industry 	Folker Steden, SCHOTT
9:45	Glass Making <ul style="list-style-type: none"> • Glass Melting • Tubing Production • Learning from Mistakes: Glass Defects 	Folker Steden, SCHOTT
10:40	<i>Coffee Break</i>	
10:55	Glass Converting Process <ul style="list-style-type: none"> • Glass containers for pharmaceutical application • Container production from glass tubing • Factors that affect surface chemistry in glass conversion to vials • Molded container production • Additional proprieties with internal and/or external treatment/coating 	Serena Panighello, Stevanato Group
12:20	<i>Lunch Break</i>	
13:20	Glass Strength and Fracture Mechanics <ul style="list-style-type: none"> • Glass Breakage – Fundamentals • Assessment of Flaws • Fractography - Fundamentals 	Florian Maurer, SCHOTT
14:50	Practice and Hands-on Demonstration: Fractography	Florian Maurer, SCHOTT
15:20/15:35	Visit SCHOTT Tubular Glass Manufacturing	
17:05	<i>Coffee Break</i>	
Receiving Inspection of Glass Primary Packaging Material		

17:20	Requirements from Pharmacopoeias (EP, JP, USP) and Incoming Inspection <ul style="list-style-type: none"> • Overview Pharmacopoeia • Testing Parameters • Testing Methods, Equipment, Tools • Defects and PDA Technical Report #43 	Sonja Wicks, <i>Vetter Pharma</i>
18:00	<i>End of Training Course Day 1</i>	
Day 2, 12 June 2024		
08:45	How to Do in Practice <ul style="list-style-type: none"> • Sampling (AQL) • Sample size • Testing • Documentation • Supplier certification & test reduction 	Sonja Wicks, <i>Vetter Pharma</i>
Receiving Inspection of Glass Primary Packaging Material (cont.)		
09:15	Inspection of Glass: What to Consider, Common Problems <ul style="list-style-type: none"> • Practical examples, case study 	Sonja Wicks, <i>Vetter Pharma</i>
10:00	<i>Coffee Break</i>	
10:30	Coordination Process Packaging Manufacturer and Customer <ul style="list-style-type: none"> • Important parameters Measured variables Regulating variables Control loop Interaction with manufacturer Effort reduction 	Sonja Wicks, <i>Vetter Pharma</i>
Machine Use of Glass Primary Packaging Material		
11:00	Machine Runability of Glass Primary Packaging <ul style="list-style-type: none"> • Roughness of glass primary packaging material Geometrics, tolerances Quality of glass Impact of machine speed 	Markus Heinz, <i>Syntegon Technology</i>
11:45	<i>Lunch Break</i>	
12:45	Use of Glass Primary Packaging Material Along the Process Chain <ul style="list-style-type: none"> • Considering different kind of containers, bulk and nested: Washing machine Depyrogenation tunnel Filling machines Stoppering Rod insertion and labelling for syringes Conveyor belts Automated inspection Packaging line 	Markus Heinz, <i>Syntegon Technology</i>
13:30	Case Study: What to Consider, What are Common Problems, How to Avoid Them <ul style="list-style-type: none"> • Collision analysis • Basics of good glass handling • Technologies to avoid glass-to-glass contact 	Markus Heinz, <i>Syntegon Technology</i>

14:15	<i>Coffee Break</i>	
14:45	Coordination Process Primary Packaging Material and Machine <ul style="list-style-type: none"> • Important parameters Control loop Synchronization 	Markus Heinz, Syntegon Technology
15:15	Questionnaire <ul style="list-style-type: none"> • <i>Elaboration by participants</i> • <i>Presentation of the correct solution and discussion of the results</i> 	
16:00	<i>Final Q&A & Check if all expectations are fulfilled</i>	
16:15	<i>End of Training Course</i>	