

Event Agenda
Exploring Container Closure Integrity (CCI) Testing Methods Training Course (PDA 109)

DAY 1	
8:30	Welcome and Introductions
8:45	Regulatory Requirements
9:15	 CCI Assurance Through Product Lifecycle Testing Requirement Definition – Risk-Based Approach CCI Profile & Testing Strategy Development
10:00	Break
10:15	 CCI Test Methods: Fundamentals CCI Defects and Commonly Used Positive Controls Evolution of CCI Testing Technology: Liquid Flow, Gas Flow, Electron Flow (Electric Current)
11:00	Special Topic: Lenox Laser
11:30	 CCI Test Methods: Overview Deterministic vs Probabilistic Definitions Physicochemical Methods vs Microbiological Methods: Differences and Correlations Microbial and Dye Ingress Testing Basics
12:15	Lunch
13:15	CCI Testing Technologies Vacuum and Pressure Decay Mass Extraction Headspace Gas Ingress HVLD - PTI Tracer Gas (Helium Leak Detection) OES
14:30	Helium Leak Detection of Syringes
15:00	Break
15:20	Application Case Studies (Part 1) Tracer gas (Helium leak detection) Optical Emission Spectroscopy for CCI Testing
16:00	Hands-On Training: Rotation 1, 2 • All Instrument Stations • HVLD Station (PTI) • Vacuum Decay (Wilco) • Headspace (Lighthouse) • Helium Leak Detection (LDA by PTI) • Mass Extraction (Pfeiffer/ATC) • Optical Emission Spectroscopy (Pfeiffer)
17:00	End of Day 1



Event Agenda
Exploring Container Closure Integrity (CCI) Testing Methods Training Course (PDA 109)

DAY 2	
8:30	Recap Day 1
8:40	Application Case Studies (Part 2) Vacuum and Pressure Decay Mass Extraction
9:20	Hands-On Training: Rotation 3,4 • All Instrument Stations
10:10	Break
10:30	Application Case Studies (Part 3) • Headspace Gas Ingress – Lighthouse • HVLD - PTI
11:10	Hands-On Training: Rotation 5,6 • All Instrument Stations
11:50	Special Topic • Residual Seal Force: A Powerful Vial Seal Quality Test & Demo
12:30	Lunch
13:30	 Special Topic Systemic Evaluation of Vial Container Closure System Suitability at Frozen Conditions & Using Helium Leak Detection CCI Testing to Inform Container Closure System Design
14:00	Approaches to CCI Testing Method Selection
14:30	Break
15:00	Development and Validation of Integrity Test Methods
15:40	Group exercise • Product Life Cycle Testing and Method Selection
16:10	Group Exercise • Presentations & Discussion
16:30	End of Event