Thu	9:00 – 17:00 9:00 yrsday, 27 February 2020
09:00	Welcome and Introduction
09:15	Regulatory Requirements CCI introduction, regulatory requirements, and industry trends
9:45	Introduction CCI Assurance throughout Product Lifecycle Testing requirement definition – risk-based approach CCI Profile & Testing strategy development
10:30	Coffee Break
11:00	CCI Test Methods: Fundamentals CCI defects and commonly used positive controls Evolution of CCI testing technology: liquid flow, gas flow, electron flow (electric current)
11:30	Methodologies for Sizing CCI Defects Using Gas Flow Dynamics
12:00	Lunch Break
13:00	 CCI Test Methods: Overview Deterministic vs probabilistic definitions Physicochemical methods vs microbiological methods: differences and correlations Microbial and Dye ingress Testing basics
13:30	CCI Testing Technologies Vacuum and pressure decay Mass Extraction Headspace gas ingress HVLD Tracer gas (helium leak detection)
14:30	Coffee Break
15:00	Special Topic: Preventative Studies Critical Dimensions and Capping
15:30	Application Case – Part 1 Tracer gas (Helium leak detection) Vacuum and pressure decay
16:10	Hands-on Training • All instrument stations o HVLD station o Vacuum decay o Headspace o Helium leak detection o Mass extraction o AMI Optical Emission Spectroscopy

16:50	Day 1 Review, Q&A
17:00	End of Day 1

Friday, 28 February 2020 8:30 – 16:00			
08:30	Welcome		
08:40	Application Case Studies - Part 2 • Mass Extraction • AMI Optical emission spectroscopy for CCI testing		
09:20	Hands-on Training • All instrument stations		
10:10	Coffee Break		
10:40	Application Case Studies – Part 3 Headspace gas ingress HVLD		
11:20	Hands-on training • All instrument stations		
12:00	Lunch Break		
13:40	Approaches to CCI Testing Method Selection Method Selection Case Studies		
13:00	 Development and Validation of Integrity Test Methods Method development best practices Method validation strategy Pitfalls and solutions 		
14:20	Introduce Group Exercise Product life cycle testing and method selection		
14:30	Coffee Break		
15:00	Group Exercise - Breakout		
15:30	Group Exercise - Presentations & Discussion		
16:00	End of Course		