

Event Agenda

Fundamentals of Automated Visual Inspection Training Course (PDA 593.2)

DAY 1	
8:30	Welcome and Introductions
9:00	 Theory 1: Introduction into Visual Inspection and Regulatory Requirements Purpose of visual inspection Regulations review: United States, Europe, Japan, China Similarities and differences in compendial methods 100% inspection and acceptance testing (AQL) incl. DIP Definitions and practical examples of inherent, intrinsic and extrinsic particles
10:30	Break
10:45	Theory 2: Life Cycle Approach and Risk Evaluation Contamination control strategy Holistic particle life cycle management Particle investigations Risk evaluation of particulate matter Monitoring and trending
12:00	Lunch
13:00	Theory 3: Technical Principles of Automated Inspection Machines Part I • Functionality of automated inspection machines • Camera systems/light/motion • Image processing and database system • Interlinkage of parameters: speed, rotation speed, inspection parameters, detection probability, false reject rate
13:45	Break
14:00	 Theory 3: Technical Principles of Automated Inspection Machines Part II Properties, capabilities and limitations of automated inspection systems Scope of automated visual inspection Considerations on primary containers and product properties Artificial Intelligence – how and when to apply it in AVI
15:30	Exercise 1: Principle Basic Image Acquisition and Processing, Test Samples Parametrization
16:30	End of Day 1



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DAY 2	
8:30	 Theory 4: Transition from Manual to Automated Inspection Manual inspection as a prerequisite for transition to automated inspection Manual inspection baseline assessment Interpretation of inspection results and validation of data URS & feasibility studies
10:30	Break
10:45	 Theory 5: Qualification Test Set and Routine Test Set What to include in test sets for qualification How to ensure the test set is representative and challenging Routine defects vs. artificial defects
12:00	Lunch
13:00	 Theory 6: Validation of AVI processes Considerations on validation strategy for automated inspection 2-stage inspection process with MVI/SAVI Performance measurement – comparing apples to apples Maintaining the manual inspection
14:15	Break
14:30	Theory 7: Validation Maintenance Risk management Routine functional tests Monitoring of performance Change control Re-validation
15:00	Exercise 2: Quality Factors and Knapp Simulation
16:00	End of Event