
Day 1**Topics**

- Introductions
- Course objectives and expectations
- Basic Concepts in CSV
- CSV vs CSA – Is there a difference?
- Guidelines & Regulations background
- Which Regulations and Standards apply to CSV?
- 21 CFR part 11 – high level overview
- EU GMP Annex 11- high level overview
- Data Governance and Data Integrity
- Data Integrity vs Data Quality
- Risk Assessment from a Data standpoint
- What is Critical-Thinking and Risk-Based approaches?
- GAMP5 and System Categorization and the Validation Approach
- Qualification vs Validation
- Data integrity Compliance
- IEC 62304- software requirements overview

Day 1 Wrap-Up

- Feedback and Session Q&A
 - Reflection for next session
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Day 2**Topics**

- Reflections from last session
- Computerized Systems Life Cycle and the added value of CSA
- CSV Deliverables per GAMP5 System Categorization
- Risk Assessment from a Data standpoint – The "Save As" option
- Identifying critical systems and the validation approach.
- Validation Documentation/Deliverables explained
- Functional Risk Assessment vs Data Risk Assessment
- Spreadsheet (Excel) Validation- what shall be tested?

Day 2 Wrap-Up

- Feedback and Session Q&A
 - Reflection for next session
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Day 3**Topics**

- Reflections from last session
- Emerging Technologies and CSV
 - Cloud-Based Systems
 - SaaS
 - Impact of AI and machine learning on Validation
- Case Studies and Warning Letters

Day 3 Wrap-Up

- Feedback and Session Q&A
 - Reflection for next session
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