



Speakers



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Computerised System Validation

- Introduction to Risk Management The GAMP® 5 Approach

Live Online Training on 25 November 2025 and 26-28 November 2025



Learn How to Plan, Implement and Document Effectively Computer Validation Activities

Highlights

- The GAMP® 5 Second Edition
- The EU GMP Guide Annex 11
- 21 CFR Part 11
- The GAMP® 5 Lifecycle
 - Software Categorisation
 - Specifications
 - Verification / Testing
- Practical Risk Management ICH Q9 and FMEA Methodology
- Validation Planning
- Change Control & Test Incident Management
- Validation Documentation
- Presentation to Inspectors
- Data Integrity Considerations for CSV
- Up to 10 Case Studies / Workshops / Interactive Sessions

Including implications of EU GMP Annex 11 "computerised systems"

Objectives

- Get to know the current risk management approaches of ICH Q9 and GAMP® 5 2nd Edition
- Become familiar with the use of the latest methods and tools for risk analysis when validating computerised systems
- Learn how the activities involved in the validation of computerised systems can be controlled efficiently by means of risk management
- In 3 case studies / workshops you can see how these procedures are applicable

Background

Current GMP regulations and guidelines (EU-GMP Guide Annex 11 'Computerised Systems', ICH Q9, GAMP® 5 2nd Edition, ASTM E2500-20) focus more and more on the topic of risk management. However, the regulations do not offer much concrete advice on how their principles should be translated into practice during the validation and operation of computerised systems. Therefore, it is the aim of this course to provide you with practice-oriented guidance in performing this task.

Target Audience

This Live Online Training is directed at employees from Production, Quality Control / Quality Assurance, Engineering, IT who have to deal with risk assessment and risk management in the field of computerised system validation.

Programme

Introduction – What Do You Want From This Day?

- Capturing delegates expectations
- Sharing and reducing to key points in groups
- Sharing with all delegates and tutors

An Introduction to Risk Management (Including ICH Q9)

- Definition of "Quality Risk Management"
- Principles of Quality Risk Management
- Application of the principles in validation
- Methods of assessing and controlling risk
- Regulatory expectations for risk management

Risk Management the GAMP® 5 Way

- The importance of Risk-based Decision Making
- How the GAMP 5 Risk Management Approach aligns with ICH Q9
- The 5-Steps you will need to follow described in detail
- Risk Management throughout the System Lifecycle
- Short workshop on Risk Identification and Risk Analysis

Risk Assessment the GAMP® 5 Way

- The simple GAMP® 5 Risk Assessment Method
- Assessment Scales for computerised systems that work
- Functional Risk Assessments and Risk Reduction Strategies
- Using risk to determine Test Rigour



- High Level and System Risk Assessment
- Evaluating identified risks
- Controls to mitigate unacceptable risks



- How to document a FRA
- Classification of risks into H, M, L
- What are the conclusions from the risk assessment?
- What options do you have to mitigate (reduce) the higher risks?
- Using the output to determine verification tasks?

An Introduction to Risk Ranking

- What is risk ranking?
- How is it carried out?
- How is it documented?
- A few useful applications



Case Study / Workshop: Applying Risk Ranking to Determine System Remediation Priorities

- How is severity determined?
- How can scales be created?
- Ranking the risks
- Developing a risk-based action plan

Your Benefits

Internationally Acknowledged Certificate from ECA Academy

The EU GMP Guide requires: "... All personnel should be aware of the principles of Good Manufacturing Practice that affect them and receive initial and continuing training,...".
This is why you receive an acknowledged participant certificate, which lists the contents of the course in detail and with which you document your training.





This Training Course is recognized for the GMP/GDP Certification Scheme

Building on your education the ECA GMP/GDP certification programmes provide you with the appropiate supplement to acquire this qualification. This

training course is the first element for your additional certification. Simply choose any three courses within the programme according to your professional interest. Your certificate is then valid for two years. To renew it, you can pick any training from the ECA courses and conferences list within that two-years period – allowing you to broaden your knowledge in GMP and GDP compliance. Please find more information at www.gmp-certification.org

Programme "Computerised System Validation – The GAMP® 5 Approach"

Objectives

Why should you attend this Live Online Training?

- You will systematically be introduced to the principles and methods of the validation of computerised systems (according to GAMP®)
- You will learn the skills to plan, implement and document effectively validation activities for computerised systems and to assess them with respect to their GxP compliance
- In case studies / workshops / interactive sessions you can see how the theoretical foundations will apply practicable

Background

Computerised systems are a central factor determining work sequences in the pharmaceutical industry. Their use increases product safety and saves time and costs of manual intervention. This creates the requirement and necessity, however, to validate all computerised systems which can influence the quality of pharmaceutical products.

The basis of the Live Online Training will be the current requirements for the validation of computerised systems like GAMP® and their GxP-oriented application in practice.

Experts from the pharmaceutical industry and from the GAMP® Committee will show you efficient ways to validate your computerised systems.

Target group

This Live Online Training is directed towards specialists and executives in the pharmaceutical industry entrusted with the planning, implementation and evaluation of the validation of computerised systems.

Programme

Introduction – What the Participants Expect An open session capturing the expectations of the delegates.

Validation Overview

- What do we mean by Validation?
- Validation and Qualification
- Organising and Planning
- Good Documentation Practice
- Specification & Verification
- System Inventory
- System Description

Computerised Systems in Practice

- Definition of a Computerised System
- Scope of CSV (Computerised System Validation)
 - Laboratory Equipment
 - Automation / Process Control
 - Facility Management
 - GxP Applications GCP / GLP / GMP / GDP / GVP
 - IT / OT Infrastructure

Regulatory Framework Overview

- GxP: Regulated Good Practices
- EudraLex
 - Relevant Regulatory Framework for CSV Purposes
- US GxP Regulations
- Industry Standards

Annex 11 "Computerised Systems" to European GMP

- General principles
- Project phase
- Operation
- ERES requirements
- Annex 11 vs 21 CFR Part 11
- How can you implement it?



The GAMP® 5 2nd Edition: A Risk-Based Approach to Compliant GxP Computerised Systems

- Applicability
- GAMP® 5 Key Principles
- Life Cycle / ASTM E2500-13 / V-Model
- Guide Structure
- Risk Management according to ICH Q9

Data Integrity Considerations for CSV

- What data are relevant?
- ALCOA+: Data Integrity criteria
- Paper vs hybrid vs electronic systems
- Data integrity requirements for CSV projects

Specifying Requirements

- Importance of Requirements Specification (RS)
- RS Scope and Contents
- Roles & Responsibilities
- Requirements Good Practices
- POLDAT

GAMP® 5 Software Categories

- System Structure
- Software Categories 1, 3, 4, 5
- End User Applications
- User View vs IT Perspective



Case Study: Software Categorisation According to GAMP® 5

Functional Specifications - Building the Bridge

- Importance of URS FS linking
- FS Scope and Contents
- Roles & Responsibilities
- FS and FRA
- FS Good Practices

Design Specification

- CS Configuration Specification
- Detailed Specification
 - SDS Software Design Specification
 - SMS Software Module Specification
 - HDS Hardware Design Specification
 - NDS Network Design Specification

Requirement Traceability

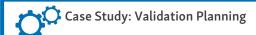
- Regulatory expectation vs Good Engineering Practice
- Vertical Traceability / Horizontal Traceability
- How to trace? Embedded Traceability / Traceability Matrix

Design Review ... More Than a Milestone: A Process

- GAMP® 5 recommendation on 'Design Review'
- Functional & technical design review
- Scaleability of the review activities
- Design review: a life cycle supporting process
- Design review documentation
- From 'Design Review' to 'Periodic Evaluation'

Validation Planning

- CSV: A Life cycle approach embedded into the QMS
- Validation Master Plan
- Qualification & Validation on Project / System Level
 - Qualification / Validation Plan
 - Supplier Assessment / Supplier Management
 - Risk Management
 - Documentation
 - Verification
 - Supporting Processes / System Release

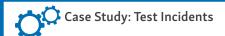


Testing of GxP Systems

- Verification vs Validation Terminology
- Software testing
- Acceptance testing / Factory acceptance test (FAT) / Site acceptance test (SAT)
- Qualification testing
 - Installation qualification (IQ) / configuration testing
 - Operational qualification (OQ) / functional testing
 - Performance qualification (PQ) / requirements testing
- Good Testing Practice
- Management of test environment
- Verification of data migration activities
- Optimising the test strategy

Test Incident Management

- Test incident management overview
- What is a test incident?
- Test incident management process
- Taking a risk-based approach



Change and Configuration Management During the Project Phase

- Regulatory requirements
- Configuration management
- Change management
- Responsibilities
- Recommendation
 - When to start?
 - Areas of concern



CSV – Specific Aspects: Automation

- System Overview / Specifications
- GAMP® 5 and risk analysis
- Findings & consequences

Validation Reporting and Handover to Operation

- Linking the Validation Plan and Report
- Key documents
- Validation summary reports
- Handover to Operation

CSV: Presentation to Inspectors

- Managing the inspection
- What inspectors want to see
- Warning Letters and 483s
- Inspection experiences
- Lessons to learn

You cannot attend the Live Event?

We also offer many of the training courses and conferences as recordings. This means that you can watch the videos of the event "on demand" – whenever it suits you – on our web server. It is quite uncomplicated and doesn't require any software – you simply watch the video on your browser. You can find all recorded events at www.gmp-compliance.org/recordings.

Organisation and Contact

ECA has entrusted Concept Heidelberg with the organisation of this event

CONCEPT HEIDELBERG P.O. Box 10 17 64 69007 Heidelberg, Germany Phone +49(0)62 21/84 44-0 Fax +49(0)62 21/84 44 34 info@concept-heidelberg.de www.concept-heidelberg.de

For questions regarding content please contact:

Dr. Andreas Mangel (Operations Director) at +49(0)62 21/84 44 41, or at mangel@concept-heidelberg.de.

For questions regarding organisation please contact:

Ms Sonja Nemec (Organisation Manager) at +49(0)62 21/84 44 24, or at nemec@concept-heidelberg.de.

This could be of interest for you as well

Would you like to train a larger group of participants in your company?

We offer practice-oriented GMP/GDP training courses on:

- Basic GMP
 - APIs (ICH Q7)
 - Medicinal Products
 - Biopharmaceuticals
- Quality Assurance
- Quality Control
- Validation/Qualification
- Regulatory Affairs
- Sterile Manufacturing
- IT / Computer Validation
- Good Distribution Practice (GDP)
- Data Integrity
- Packaging
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- Technical Operations

You will find a time schedule for each training course at https://www.gmp-compliance.org/training/gmp-gdp-in-house-trainings.

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Speakers



Frank Behnisch CSL Behring GmbH, Germany

Frank is Senior Manager Project Engineering at CSL Behring GmbH in Marburg, Germany. He is member of the GAMP® D-A-CH "steering committee" and chairman of a GAMP® Special Interest Group (SIP) for "Small Systems".



Yves Samson, Kereon AG Basel, Switzerland

Yves joined the industry where he served as project and site engineer automation. In 2002, he founded Kereon AG. He is member of GAMP® Europe Steering Committee, co-founder and chairman of GAMP® Francophone and edited the French version of GAMP® 4 / 5. Membership: Active member of the GAMP working group 'IT Infrastructure Compliance and Control' / ECA "DI & IT Compliance Group".



Dr Robert Stephenson Rob Stephenson Consultancy, UK

Rob joined Pfizer Sandwich UK in 2000 as member of their Quality Unit operating within the IT group. As a long-standing member of the GAMP Europe Steering Committee Rob has contributed material to GAMP® 5 and the ISPE GAMP Good Practice Guide on "A Risk-Based Approach to Operation of GxP Computerized Systems" for which he was co-leader.



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Live Online Training

Computerised System Validation:

Computerised System Validation –

The GAMP® 5 Approach

🗆 26-28 November 2025

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Date of the Live Online Training

Computerised System Validation: Introduction to Risk Management

Tuesday, 25 November 2025, 09.00 h - 18.00 h

Computerised System Validation -The GAMP® 5 Approach

Wednesday, 26 November 2025, 09.00 h - 17.30 h Thursday, 27 November 2025, 09.00 h - 17.30 h Friday, 28 November 2025, 09.00 h - 16.00 h

All times mentioned are CET.

Technical Requirements

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Fees (per delegate plus VAT) Computerised System Validation: Introduction to Risk Management

ECA Members € 1,090 APIC Members € 1,190 Non-ECA Members € 1,290 EU GMP Inspectorates € 645

The conference fee is payable in advance after receipt

Computerised System Validation -The GAMP® 5 Approach

ECA Members € 2,290 APIC Members € 2,390 Non-ECA Members € 2,490 EU GMP Inspectorates € 1,245

The conference fee is payable in advance after receipt of invoice.

Save € 600,-by booking both courses!



We will offer you a discount of € 600 if you book both live online training courses.

Registration

Via the attached reservation form, by e-mail or by fax - or search and register directly at www.gmp-compliance.org under the numbers 21650 (Introduction to Risk Management), 21652 (The GAMP® 5 Approach) and 21651 (Introduction to Risk Management + The GAMP® 5 Approach).

Presentations/Certificate

The presentations will be made available to you prior to the Live Online Training as PDF files. After the event, you will automatically receive your certificate of participation.

Conference language

The official conference language will be English.

ions on the right, please fill out here:

If you cannot attend the conference you have two options:

1. We are happy to welcome a substitute colleague at any time.

2. If you have to cancel entirely we must charge the following processing fees:

- Cancellation until 4 weeks prior to the conference 10 %,

- Cancellation until 2 weeks prior to the conference 55 %,

- Cancellation until 2 weeks prior to the conference 50 %.