



Speakers



Dr Joachim Ermer
Ermer Quality Consulting, Germany



Dr Manfred Fischer
Manfred Fischer Consulting, Germany



Joerg Kastenschmidt
Merck, Germany



Dr Bob McDowall
R D McDowall Limited, UK

GMP/FDA Compliance in Analytical Laboratories



Live Online Training on 09–11 December 2025



*How to implement cGMP requirements in the everyday practice of
quality control laboratories*

Highlights

- cGMP Compliant Documentation
- Laboratory Data Integrity
- Analytical Instruments Qualification and Calibration
- Practical Ways to Validate Excel Spreadsheets
- Reference Standards and Laboratory Reagents: a risk-based Approach
- Analytical Methods Validation and Method Transfer
- Out-of-Specification Results
- Stability Testing

4 Interactive Workshops

Objective

The purpose of this three-day Live Online Training is to give participants a comprehensive overview of FDA's current compliance requirements (21 CFR Part 211, Guidances for Industry, Compliance Program Guide, etc.) and expectations in these and related areas, and how they can be managed effectively.

The format allows each of our speakers to give an overview of the specific regulatory requirements associated with their topic prior to describing the approach to managing the issues with respect to philosophy, documented procedures, SOPs, etc.

In addition, the programme includes four workshop sessions covering:

- Method Validation
- Out of Specification Results
- Validation of Excel Spreadsheets
- Method Transfer

Background

A major consequence of the Barr Ruling in 1993 was the significantly greater emphasis FDA inspections placed on the management and performance of quality control laboratories particularly the handling of Out of Specification results.

As a result of the increased and on-going scrutiny of analytical performance it is hardly surprising that even today the most frequently cited cGMP non-compliances are still found in laboratories, particularly:

- General cGMP understanding and particularly relating to compliance with written procedures
- Validation, performance and transfer of analytical procedures
- Data integrity
- Management of out of specification and suspect test results
- Instrument qualification including an explanation of the new version of USP <1058> and calibration
- Computer validation (including the requirements and actual interpretation of 21 CFR Part 11)
- Operator training
- Management of reagents and standards

Take advantage of this Live Online Training to discuss all these issues.

Target Audience

This course will be of significant value to:

- All quality control managers responsible for FDA compliance in their laboratories
- Laboratory staff charged with meeting these requirements day-to-day
- Everybody involved in FDA inspections

Moderator

Dr Markus Funk, CONCEPT HEIDELBERG

Programme

General Aspects: Regulatory Requirements and FDA Inspections

- Regulatory Overview (US, Europe and the world)
- Regulatory requirements in the US (cGMP, CFR, Guidances for Industry, etc.)
- FDA Inspections
- Key issues during laboratory inspections
- 483s and Warning Letters

Qualification of Analytical Instruments in QC Laboratories

- Legal requirements (cGMP, CFR, etc.)
- USP General Chapter <1058> Analytical Instrument Qualification
- Qualification Phases (DQ/IQ/OQ/PQ)
- Qualification examples (problems and solutions)
- Analytical instrument life-cycle (Requalification, etc.)

Calibration for FDA Inspected Analytical Laboratories

- General approach to Calibration
- Instrument calibration in the USP
- Contrasting US and European approaches (important in the context of laboratories struggling to meet both requirements)

Reference Standards and Reagents for FDA-Inspected Laboratories

- Regulatory requirements
- Types of reference standards: Official/primary/working standards/reference materials
- Traceability, characterisation, and retest date of standards
- Risk-based approach for management, storage and shelf-life of laboratory reagents and solutions
- Stability investigation of solutions for quantitation

Validation of Analytical Procedures

- Regulatory requirements (ICH, FDA, compendia)
- Lifecycle approach (3-Stage-Model according to USP General Chapter <1220>)
- Verification of compendial procedures
- Rationale design of validation studies
- Identification of relevant performance parameters
- Sensible use of statistics
- Suitable performance parameters for continuous monitoring

Stability Testing

- Regulatory requirements for stability testing of drug substances and drug products
- Types of stability studies
- Storage conditions requirements according to climatic zones
- Stability protocol and reports
- Establishment of storage conditions and shelf-life
- Stability testing for post-approval changes

Out of Specification Results

- Requirements of the FDA Guidance
- Efficient laboratory investigations
- Reanalysing, retesting, resampling
- Management of variability-caused OOS results
- Investigation of atypical results
- Proactive strategies to prevent OOS results

Documentation for Quality Control Laboratories

- “Scientifically sound” GMP requirements of QC documents and approaches
- Types of QC laboratory documents:
 - Test specifications and analytical procedures
 - Standard Operating Procedures
 - Instrument qualification protocols
 - Complete data for analytical testing and Certificates of Analysis
- Compare and contrast FDA and EU documentation requirements
- Management of blank forms and data integrity issues

Sampling in Compliance with FDA Requirements

- Importance of the sampling procedure
- Regulatory requirements
- Sampling statistics/sampling plans
- Sampling procedures
- Sampling equipment and environment
- Training
- Retained samples

Practical Computer Validation in Analytical Laboratories

- Computerised system validation as a critical activity in the analytical laboratory
- 21 CFR Part 11 compliance
- FDA emphasis on data integrity for computerised systems
- GAMP software categories and impact on validation approach
- GAMP Good Practice Guide for Validation of Laboratory Systems second edition
- Case study examples: how to validate systems in a cost-effective way and steps of what not to do!

FDA Approaches to Laboratory Data Integrity

- FDA laboratory observations: falsification and fraud
- Compliance Program Guide 7346.832 on Pre-Approval Inspections: Objective 3 - Laboratory data integrity
- FDA inspector training: focus on the computer system not paper printouts
- What controls do you need to have in place to ensure data integrity?

FOUR WORKSHOPS



Some of the most important laboratory compliance topics will be further discussed in interactive workshops:

Topic I: Method Validation

Moderator: Dr JOACHIM ERMER

Topic II: Out of Specification Results

Moderator: Dr JOACHIM ERMER

Topic III: Validation of Excel Spreadsheets

Moderator: Dr BOB McDOWALL

Topic IV: Method Transfer

Moderator: Dr MANFRED FISCHER

Transfer of Analytical Procedures

- USP General Chapter <1224> Transfer of Analytical Procedures (TAP)
- Key steps for a successful method transfer:
 - Initiation phase (training method familiarization, etc.)
 - Types of transfer
 - Analytical procedures
 - Materials (samples and standards) and testing design
 - Instruments
 - Data assessment – Acceptance criteria
 - Documentation (transfer protocol / report)
- Summary

Validation of Excel Spreadsheets

- Excel spreadsheets are used widely in analytical laboratories as it is easily available and easy to use - and equally so, it is easy to misuse
- Technical features available in Excel
- Practical ways to validate Excel spreadsheets
- Protection of the electronic records produced
- Problems of complying with 21 CFR Part 11 and the new EU GMP Annex 11 Requirements

Training Case Study

- Legal requirements
- Education/GMP training/Training on the job
- Training records
- Re-training frequency

Speakers



Dr Joachim Ermer
Ermer Quality Consulting, Germany

Dr Ermer worked for almost 30 years in various positions in industrial Quality Control. His responsibilities included head of laboratory within the analytical drug development at Hoechst AG, Frankfurt, Germany, a global function as Director of Analytical Processes and Technology at Aventis, head of Quality Control and head of QC Lifecycle Management Frankfurt Chemistry, Sanofi, Germany, and Sanofi Global Reference Standard Coordinator. Since December 2020, he serves as consultant for topics of pharmaceutical analytics and Quality Control.



Dr Manfred Fischer
Manfred Fischer Consulting, Germany

Former Director MDI Product Development, Skye-Pharma (member of Vectura group), Basel, Switzerland. 27 years of experience in pharmaceutical analytics and formulation development. Responsible for the pharmaceutical development of pressurized Metered Dose Inhaler (pMDI) products.



Joerg Kastenschmidt
Merck, Darmstadt, Germany

Joerg Kastenschmidt is an engineer of chemical and bio-technology. He started his career in 2001 as project engineer at the PHAST GmbH in Homburg/Saar. After working in the GMP processes unit within the pharmaceutical analytical development at Merck for 10 years, he joined the development QA in 2016, where amongst other things he is responsible for qualification of analytical instruments, production equipment / facilities and validation of IT-systems.



Dr Bob McDowall
R D McDowall Limited, Bromley, Kent, UK
– Member of the ECA Data Integrity & IT Compliance Group

Analytical chemist with over 40 years experience including 15 years working in the pharmaceutical industry; Consultant with 25 years' experience, Director of R D McDowall Ltd., UK.



Date of the Live Online Training

Tuesday, 09 December 2025, 09.00 – 17.00 h
Wednesday, 10 December, 09.00 – 17.30 h
Thursday, 11 December, 09.00 – 17.30 h
All times mentioned are CET.

Technical Requirements

We use Webex for our live online training courses and webinars. At www.gmp-compliance.org/training/online-training-technical-information you will find all the information you need to participate in our events and you can check if your system meets the necessary requirements to participate. If the installation of browser extensions is not possible due to your rights in the IT system, please contact your IT department. Webex is a standard nowadays and the necessary installation is fast and easy.

Fees (per delegate, plus VAT)

Non-ECA Members: EUR 2,290.- per delegate + VAT
ECA Members: EUR 2,090.- per delegate + VAT
EU GMP Inspectorates: EUR 1,145.- per delegate + VAT
The conference fee is payable in advance after receipt of invoice.

Registration

Via the attached reservation form, by e-mail or by fax – or **search and register directly at www.gmp-compliance.org under the number 22012.**

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.

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Organisation and Contact

ECA has entrusted Concept Heidelberg with the organisation of this event.

CONCEPT HEIDELBERG

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Reservation Form (Please complete in full)



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