

Speaker

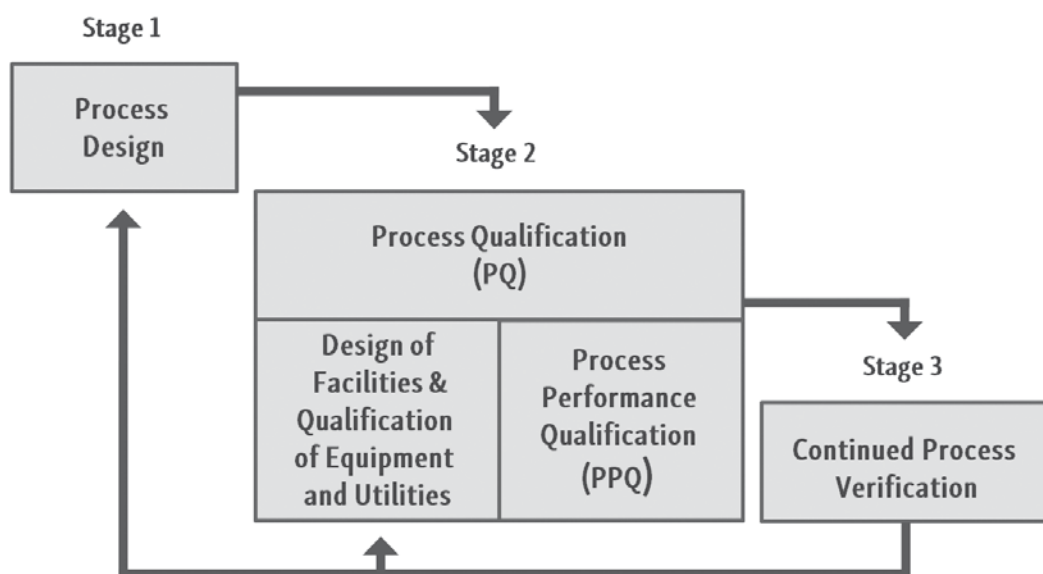


Dr Line Lundsberg-Nielsen
Lundsberg Consulting Ltd., UK

Process Validation



Live Online Training on 04/05 October 2022



Three Q & A sessions make it lively

Highlights

- EU and FDA View
- The link between Quality by Design and Process Validation
- The benefits of applying DoE and PAT during development
- Establishing the control strategy
- Process validation life cycle – how to implement
- Process Validation case study
- Ongoing process verification for legacy products

- Free Download: ECA's Good Practice Guide
„Integrated Qualification and Validation“

Objective

With the publication of the Guidance for Industry “Process Validation: General Principles and Practices” 2011, the FDA requires a new direction. Validation is now a „Life Cycle Process” with 3 stages:

- Process Design
- Process Qualification
- Continued Process Verification

The focus is on process knowledge and process understanding. Both should be a result of development and verified in routine production. The “magic” 3 batches are not mentioned any more. What is very important nowadays is the term „scientific sound“, and explicit statistics are mentioned. Six Sigma elements (e.g. Design of Experiments, DoE) are also mentioned directly or indirectly. There is also a stage in routine production called „continued process verification“.

With the revision of Annex 15 EU GMP Guide in 2015 the EU is going in the same direction: Validation is a lifecycle with pharmaceutical development as basis and also a stage 3 is mentioned, called Ongoing Process Verification. In Europe 3 validation approaches are now possible – traditional, continuous and hybrid.

- How can the requirements be achieved?
- How fit the FDA requirements into European guidelines and vice versa?
- How can process knowledge and process understanding be demonstrated on the basis of development studies?
- When is a process valid now?
- Which parameters can be used for knowledge and understanding studies?
- How can „continued/ongoing process verification” be realised?

These questions are at the centre of this online-course.

Background

Since 1987 the FDA Guideline on Process Validation has been the basis for qualification and validation. Within the FDA programme “Pharmaceutical cGMPs for the 21st Century” there was an announcement for a revision of the guideline. A FDA Policy Guide of 2004 gave some hints to the new validation approach. In November 2008 the “Guidance for Industry Process Validation: General Principles and Practices” was published as a draft and came into operation in January 2011. That is now FDA’s „current thinking”. The chapter 1 of the EU GMP Guide gives hints for more emphasises on process capabilities and varieties within process validation also in Europe. EMA’s Process Validation Guidance and also the revised Annex 15 from 2015 takes a life cycle approach to process validation nowadays.

Target Audience

The addressees of the event are qualified staff charged with or responsible for validation activities, such as commissioners for validation, heads of quality assurance, department heads, etc. It also addresses members of validation teams (e.g. engineers, chemists, pharmacists, microbiologists) as well as representatives of the plant engineering industry and consultants.

Programme

Day 1

Introduction

- The validation life cycle

Process Validation Life Cycle, Regulatory Requirements

- Setting the scene for Process Validation
- Introduction to EMA’s PV guides, Annex 15, and to FDA’s PV guide
- Regulatory requirements

Process Design

- Process Design
- Quality by Design, ICH Q8 and Q11
 - Quality Target Product Profile
 - Critical Quality Attribute
 - Critical Process Parameter
 - Design Space
 - Control Strategy
 - Continual Improvement
- Link between QbD the Control Strategy and Process Design

Systems and Tools for gaining Process Understanding and establishing the Control Strategy

- Process Understanding & the Control Strategy
- Quality Risk Management
- Process Analytical Technology
- Design of Experiments
- Process Analysers
- Multivariate Data Analysis

Case Study Process Design

- Stage 1
- Applying QbD principles to design a process for an oral solid dosage formulation
- Examples of the application of DoE and PAT
- Establishing the control strategy

Process Validation / Process Performance Qualification

- The purpose and principles of PV/PPQ
- EU's different approaches to Process Validation
- Number of PV/PPQ batches
- Acceptance criteria
- PV/PPQ readiness
- PV/PPQ reporting and conclusion

Case Study Process Validation / Process Performance Qualification

- Stage 2.1: Designing the equipment and facility qualification programme based on the control strategy
- Stage 2.2: Establishing the PPQ/PV programme based on the control strategy
- Justifying the number of PPQ/PV batches
- Presenting and evaluating data
- Concluding the PPQ/PV activities
- Proposing a stage 3 CPV/OPV programme

Day 2

Ongoing/Continued Process Verification

- EMA: Ongoing Process Verification
- FDA: Continued Process Verification
- Statistical tools
- Monitoring plan – OPV/CPV plan
- OPV/CPV for legacy products

Case Study Ongoing/Continued Process Verification

- Establishing the CPV/OPV programme
- Application of relevant statistics during stage 3

Case Study Ongoing Process Verification Programme for Legacy Products

- Establishing an OPV programme for legacy products
- Defining the relevant statistical metrics
- Running, evaluating and updating the programme

Wrap-up and considerations for Process Validation in a future Industry 4.0 manufacturing environment

- How will process validation evolve in light of more automated and self-optimising processes
- A holistic approach to validation – covering qualification of equipment, control systems, computer systems, processes and analytical technologies and methods
- The role of the control strategy



Q&A sessions

Three Q&A sessions (two on day 1 and one on day 2) ensure interaction and that your questions are answered.

Speaker



Dr Line Lundsberg-Nielsen,
Lundsberg Consulting Ltd., U.K.

Dr Line Lundsberg-Nielsen is a scientist, runs her own consultancy business focusing on applying a science and risk-based approach for pharmaceutical development, process design, technology transfer, qualification and process validation. She has many years of experience within the pharmaceutical Industry and has a theoretical as well as practical approach to QbD, PAT and RTRT from working at Novo Nordisk and Lundbeck before being a consultant. Dr Lundsberg is an active ISPE member, has had different chairing roles and is a well-recognized international speaker and instructor.

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 seminar 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 appropriate 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.

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In case you do not appear at the event without having informed us, you will have to pay the full registration fee, even if you have not made the payment yet. Only after we have received your payment, you are entitled to participate in the conference (receipt of payment will not be confirmed!) (As of January 2012). German law shall apply. Court of jurisdiction is Heidelberg.

Privacy Policy: By registering for this event, I accept the processing of my Personal Data. Concept Heidelberg will use my data for the processing of this order, for which I hereby declare to agree that my personal data is stored and processed. Concept Heidelberg will only send me information in relation with this order or similar ones. My personal data will not be disclosed to third parties (see also the privacy policy at http://www.gmp-compliance.org/eca_privacy.html). I note that I can ask for the modification, correction or deletion of my data at any time via the contact form on this website.



Date of the Live Online Training

Tuesday, 04 October 2022, 09.00 – 17.00 h

Wednesday, 05 October 2022, 09.00 – 11.30 h



Would you prefer to participate on-site at the hotel? We offer various dates for this course, which you can find on our website at www.gmp-compliance.org.

Technical Requirements

For our Live Online Events, we use Cisco WebEx, one of the leading suppliers of online meetings.

At <http://www.webex.com/test-meeting.html> you can check if your system meets the necessary requirements for the participation at a WebEx meeting and at the same time install the necessary plug-in. Please just enter your name and email address for the test. If the installation is not possible because of your rights for the computer system, please contact your IT department. WebEx is a standard nowadays and the necessary installation is fast and easy.

Fees (per delegate, plus VAT)

ECA Members € 1,290

APIC Members € 1,390

Non-ECA Members € 1,490

EU GMP Inspectorates € 745

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

Registration

Via the attached reservation form, by e-mail or by fax message. Or you register online at www.gmp-compliance.org.

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.

Organisation and Contact

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

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