



Speakers



Dr Helmut Gaus
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Fundamentals of Visual Inspection

Best Practice for Manual and Automated Visual Inspection
of Parenterals



Live Online Training on 15 February 2023



Image: Saldenader

Highlights

- Understanding the US/EU Pharmacopeial requirements
- Ensuring GMP compliance in manual inspection
- Categorisation of defects
- Handling of Test-Kits
- Setting up a qualification strategy for automated systems
- Assessing and trending of inspection data
- GMP-compliant routine operation of automated systems
- Meaning of AQL tests
- Re-Inspection, Re-Qualification & Re-Validation

Objective

The training course on visual inspection gives you an understanding of the fundamentals of visual inspection of injectable products, applicable to manual and automated inspection. This covers the following aspects of visual inspection: organisation, validation, conduct and evaluation of the results. You will also learn how to implement an automated system on the basis of manual inspection.

Background

The 100% visual inspection of sterile injectable products is a requirement originating from the Pharmacopoeias, e.g. from the US USP or the European PharmEur. But there is still confusion within the global pharmaceutical industry with regard to the requirements for testing for visible particles. After the USP chapters <790> and <1790> were published, things have become much clearer, at least for the US. In Europe the new chapter 5.17.2 of the European Pharmacopoeia now also gives further advice. However, many questions remain, e.g. concerning training, re-testing, detection capabilities and revalidation of inspection systems.

Furthermore, there has been a recognisable trend towards automated inspection machines in the last years. The challenge for pharmaceutical companies is to find a suitable machine for their products and to determine reasonable inspection parameters during qualification and validation. But questions also arise during routine processes like, for example, the usage of test-sets, doing AQL-Testing as well as the adjustment of parameters of the vision systems.

We will address those topics during the conference and discuss and answer questions on:

- The latest compendial requirements concerning particulate matter
- Compliance with the revised Annex 1
- Training and qualification of operators in the manual inspection
- Validation and operation of an automated inspection system
- Setup of test kits for training, qualification and routine inspection
- Trending and monitoring of visual inspection data
- Correct AQL testing as part of the batch release
- Re-inspection of defect fractions

Target Audience

This one-day training is directed at everybody involved in the 100% inspection of sterile injectables. As the fundamentals are explained in a very comprehensive way, the course is very popular with beginners and medium experienced staff.

Programme

General Requirements

- Requirements of the different Pharmacopoeia
- Defect categorisation
- Test kits for training, qualification and routine

Manual Inspection

- Qualification of personnel
- Training of personnel
- Standardisation of working conditions
- AQL in the manual inspection

From Manual to Automated Inspection

- Usage of the Knapp and the modified Knapp test
- Detection rates
- Cross validation during the PQ phase

Automated Inspection

- Importance of particle detection rates
- System-Suitability, Requalification and revalidation
- Defect and reject fractions
- Routine inspection
- Trending of inspection data
- AQL testing as part of the release process
- Impact of visual inspection data on batch release



Image: Seidenader

Speakers



Dr Helmut Gaus, WinSol, previously Boehringer Ingelheim
Former Director Quality Control

Dr Gaus was Head of Quality Control Service at Boehringer Ingelheim, Biotechnology. He has also been working as Vice President Quality Control and Qualified Person for Novartis Generics, Vetter-Pharma and Rentschler Biotechnologie where he gained an extensive knowledge in the field of visual inspection. In 2018 he founded his own company WinSol. He also is member of the ECA Visual Inspection Group.



Felix Krumbein, Körber &
Head ECA Visual Inspection Group

Mr. Krumbein studied optotechnics and image processing and initially worked on the development of GMP-compliant image processing systems. He was head of Inspections-Systems-Support at Roche Mannheim, where he was responsible for the qualification of visual inspection systems. Since 2022 he is Head of Visual Inspection at INSPECTIFAI / Körber AG, where he is responsible for the development and implementation of AI-based solutions for fully automated inspection machines. Mr. Krumbein is also Head of the ECA Visual Inspection Group.

The ECA Visual Inspection Group

The **ECA Visual Inspection Group** was founded to assemble knowledge on visual inspection of parenterals, for example by continuously developing a Best Practice Guidance on visual inspection. This guidance paper is available for all members of the group. It contains practical solutions on how to organise and carry out the visual inspection of parenterals. Find out more about the group – and join as member. Registration is for free on the group's website at www.visual-inspection.org. There you also get access to the members' area where you will find guidelines for download, the forum and much more.

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 Live Online Training in detail and with which you document your training.



- Quality Control
- Validation/Qualification
- Regulatory Affairs
- Sterile Manufacturing
- IT / Computer Validation
- Good Distribution Practice (GDP)
- Data Integrity
- Packaging
- Medical Devices
- Technical Operations

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

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

Why not online?

GMP/GDP Training Courses/Conferences, Webinars and E-Learning

Take advantage of the wide range of „on demand“ training opportunities offered by the ECA Academy. You can use various online offers at any time without software installation. There is an extensive selection of courses available. Simply book online - with a certificate of completion, of course. Find out more at <https://www.gmp-elearning.com> and <https://www.gmp-compliance.org/gmp-webinars/recorded-gmp-webinars>.

If the bill-to-address deviates from the specifications on the right, please fill out here:

Reservation Form (Please complete in full)

Live Online Training: Fundamentals of Visual Inspection 15 February 2023

Title, first name, surname

Department

Company

Important: Please indicate your company's VAT ID Number

Purchase Order Number, if applicable

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General terms and conditions

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 2 weeks prior to the conference 10 %
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cellation or non-appearance. If you cannot take part, you have to inform us in writing. The cancellation fee will then be calculated according to the point of time at which we receive your message.

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 Live Online Training

Wednesday, 15 February 2023, 09.00 – 17.00h CET

Technical Requirements

We use Webex Events 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)

ECA Members € 790

APIC Members € 890

Non-ECA Members € 990

EU GMP Inspectorates € 495

The 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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