



**Compliance & Validation Services**  
Presents a 2-Day Training Course on:

## **Pharmaceutical Process Validation**

**24 & 25 September 2019**  
**Radisson Blu Hotel, Amsterdam**

*Please Note: There is an option to attend both this course and the following 2-Day course on Equipment System Verification/Qualification (26 & 27 September 2019) – see Page 4 for details.*



September 2019						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

- Latest regulatory guidance (USFDA, EMA/EU, PIC/S) & ICH Q8, 9, 10, 11, 12 and the 3 Stage approach to validation
- Effective process development & understanding
  - Identifying Critical Quality Attributes, establishing Critical Process Parameters and their relationships, including Design Space
  - Quality by Design (QbD)
- Tools for Process Validation
  - Quality Risk Management
  - Use of Statistics
- Process Validation approaches for:
  - Small & large molecule API/Drug Substance manufacture
  - Pharmaceutical Drug Product manufacture, including fill/finish
  - Pharmaceutical Packaging
- Maintaining the Validated State
  - Continued/Ongoing Process Verification
  - Statistical process control
  - Quality Systems, e.g. effective change control

## Course Summary: Pharmaceutical Process Validation - 24 & 25 September 2019, Radisson Blu Hotel, Amsterdam

This pharmaceutical validation training course provides delegates with a detailed appreciation of the full life cycle related to pharmaceutical and biopharmaceutical process validation. The course covers process validation for pharmaceutical and biopharmaceutical Active Pharmaceutical Ingredients (API's), a variety of pharmaceutical product formulations and primary/secondary packing.

The course includes areas such as: the concept of Operating Space, Design Space and Knowledge Space and how this relates to real life; typical process design considerations; the importance of correctly identifying critical quality attributes and the control parameters that influence / affect them (using risk assessment tools to help); quality by design and design of experiments; equipment / process control philosophy and maintaining process development traceability from laboratory through to pilot / scale-up studies and eventual production scale.

A typical approach to the validation of secondary packing operations is included, together with an overview of key regulations, guidelines and standards, including the latest FDA process validation guide and ICH Q8. Validation documentation requirements, sampling requirements (acceptable quality levels), management of deviations and Continued Process Verification, including critical GMP supporting systems, are also covered by this course. The course will be presented by individuals who have extensive and recent 'hands-on' knowledge and experience of the subject.

Day-time meals and refreshments together with a course dinner, held on the evening of Day 1, are included in the overall package

### Presenters



**Mike James, Compliance & Validation Services Limited:** Mike has over 25 years' experience in the pharmaceutical industry, working in a variety of compliance and validation roles. His experience includes preparation and delivery of national/client-based validation training courses, hands-on validation work, validation project management and regulatory compliance consultancy. Previously, Mike spent four years as the Site Validation Manager for GlaxoSmithKline (GSK) at Speke, where he was responsible for all site validation activities, including the development and maintenance of the Site Validation Programme. Before moving to the pharmaceutical industry he spent 15 years as an industry chemist. x



**Bruce Davis** has over 25 years experience with the pharmaceutical industry having previously worked for AstraZeneca. He is an engineer by profession & has put in place many development and manufacturing facilities, in EU, the Americas and Asia. He is strong supporter of the benefits brought from science and risk based approaches, supporting Quality by Design and the latest 3 Stage Process Validation. He started his own business in 2008, running training and consultancy both externally and in-house for pharmaceutical companies. He likes to make his courses engaging and relevant and is passionate about the importance of linking science and technology to practical manufacturing and engineering, to support patient needs.



**Peter Whyment:** Peter has worked in the Biopharmaceutical Manufacturing Industry for over 30 years and has a wealth of knowledge/expertise in the area of process validation. During his time in industry he has worked in Quality Control Laboratories, Analytical Development and as a senior scientist in a Manufacturing, Science & Technology function, Peter has overseen the successful technical transfer or commercial manufacturing of several biotechnology processes, including Insulin and growth hormone products.

### Who Should Attend

Individuals to benefit from attending this course include anyone involved directly or indirectly in process validation activities. The course is ideally suited to people who are new to process validation roles, or those who wish to expand their knowledge base, or those whose job roles require them to have a greater understanding of process validation. This will involve personnel from production, quality assurance, validation, technical support and engineering departments.

On leaving the course delegates will: have a broad and detailed understanding of the activities involved in pharmaceutical process validation; be able to apply and share their new knowledge; improve their individual effectiveness; and look back on an enjoyable experience.

### Venue

**Radisson Blu Hotel, Amsterdam:** Ideally situated in the historical heart of Amsterdam, close to the main tourist attractions, museums, theatres, shopping areas, red-light and business districts. The hotel has a fitness centre and excellent conference and banqueting facilities.

Address: Rusland 17, NL-1012 CK Amsterdam, Netherlands  
Tel: +31 20 623 1231  
Fax: +31 20 520 8200  
Reservations (email): reservations.amsterdam@radissonblu.com

Click on the images to  
visit the hotel's  
website



Delegates are kindly requested to arrange their own accommodation. Course fees are **£1,495.00 (GBP)** per delegate. Accommodation is NOT included in the course fees. (See Page 4 for further details on fees/bookings)



**DAY 1 (Tuesday 24 September 2019)**

**Day 2 (Wednesday 25 September 2019)**

**09:00 Opening/Welcome**

**Introduction** *[Mike James]*

- Fundamental reasons for undertaking process validation and for getting it right
- Overview of regulations and a summary of documentation requirements

**A science and risk based, lifecycle approach to Product Development and Manufacture – Validation Stage 1** *[Bruce Davis]*

- The link between Process Validation and a lifecycle approach to Product Development and Manufacture
- Introduction to Quality by Design (QbD) (ICH Q8 and Q11)
- QbD terminology:
  - Quality Target Product Profile (QTPP)
  - Critical Quality Attribute (CQA)
  - Critical Process Parameter (CPP)
  - Critical Material Attributes (CMA)
  - Design Space
  - Control Strategy
  - Continual Improvement
- Examples/workshops
- ICH Q12 draft
- Application to legacy products

**Systems Supporting a Science and Risk based approach** *[Bruce Davis]*

- Quality Risk Management (ICH Q9)
  - Risk tools, using real life examples
- Pharmaceutical Quality System (ICH Q10) – Applicable to the product lifecycle
  - Process & Product Quality Monitoring
  - Corrective & Preventative Action (CAPA)
  - Change Management
  - Management Review

**Tools Supporting QbD** *[Bruce Davis]*

- Process Analytical Technology (PAT)
- Design of Experiments (DoE)
- Process Analysers
- Multivariate data analysis
- Process Modelling
- Process Control

**09:00 Introduction to Day 2**

**Statistics For Process Validation** *[Bruce Davis]:*

- Tools used and application throughout the lifecycle of process validation.

**Process Performance Qualifications, US & The different EU approaches to Process Validation – Validation Stage 2.2** *[Bruce Davis]:*

- Relationship to development phase (process design objectives)
- Establishing the number of batches required
  - Risk and statistical basis
  - Bracketing, Matrix, and Family Approaches
- Establishing acceptance criteria
- Testing / sampling matrix – covering CQAs
- Traditional Process Validation
- Continuous Process Verification
- Hybrid approach

**Continued/ Ongoing Process Verification – Validation Stage 3***[Bruce Davis]*

- CPV plan
- Product Quality and Process Performance Monitoring System
- Statistical Process Control tools
- Link to APQR

**API Process Validation, Small Molecules** *[Mike James]*

- Regulatory perspective
- Determining impurity profiles and identifying risks
- Simplifying manufacturing routes
- Identifying / defining critical process parameters
- Typical PV approaches to multistage synthesis of APIs/Workshop

**Process Validation - Biopharmaceutical API Manufacturing** *[Industry Expert]*

- Real-life case studies
  - Process definition
  - Critical process control parameters
  - Sequence of events involved in a complex project
  - Process validation testing strategy
  - Resolving issues

**Packaging Validation** *[Mike James]*

- Annex 15 – What is its impact?
- Key considerations relating to packing process robustness
- What are the GMP risks relating to poor operations/materials
- Key packaging attributes and related control parameter
- Equipment qualification focus versus process validation focus
- Typical validation approaches, including grouping of products in relation to pack/line set-up.

Finish: 17:30

Drinks Reception: 19:00

Course Dinner: 20:00

Finish: 17:00

# BOOKING DETAILS: Pharmaceutical Process Validation - 24 & 25 September 2019, Radisson Blu Hotel, Amsterdam

**How to book on this course:** (Note: You can also book the 4-day course option which includes the following Equipment System Verification / Qualification course [24, 25, 26 & 27 Sep 2019])

- The simplest and quickest way is to book online. Please visit/return to our web-site, find the course you are interested in and follow the simple instructions (link included below).
- Alternatively, download a booking form (complete it electronically or print and annotate) and return it to us by fax or email (link and contact details included below).
- Or finally, print out this page, complete the form below by hand and return by fax, email or post.
- If you wish to attend both this course and the following 2-day course on Equipment System Verification/Qualification, you can book online, download a booking form, or complete the booking form below, but enter the total fees due in the 4-day course option at the bottom of the form. A 4-day course brochure can be downloaded from the link below.

[<< CLICK HERE TO BOOK ONLINE >>](#)

[<< CLICK HERE FOR 4-DAY COURSE BROCHURE >>](#)

[<< CLICK HERE FOR BOOKING FORM >>](#)

Fax: +44 (0)1625 800833

Includes the following 2-day Equipment Verification Course

Tel: +44 (0)1625 500833 or +44 (0)1270 760882

E-mail: [info@candvs.com](mailto:info@candvs.com)

## Alternative Booking Form (\* indicates required fields)

## Booking Terms & Conditions

*Booking Contact Name:		
*Booking Contact E-mail Address:		
*Booking Contact Telephone Number:		
*Company Name & Address:		
*Billing Address <i>(Only complete if different to Company Address)</i>		
*Delegate Information:	Number of delegates:	Delegate Name(s):
Delegate E-mail Address(es): <i>(if different to booking contact)</i>		
Special dietary requirements?		
Disability Requirements?		
Company VAT Number (or Sales Tax Number) – *EU Countries Only		
*Method of payment, e.g. card, bank transfer or cheque	NOTE: For card payments by telephone, please ensure you have entered your telephone number above and we will contact you. Alternatively, call +44 (0)1625 500833 to make your payment. Cheques should be sent with a completed booking form to Compliance & Validation Services Limited, 8 Sedgefield Close, Macclesfield, Cheshire, SK10 2WF, United Kingdom.	
Payment Reference (if available)	NOTE: For bank transfer payments we will need a valid reference number or purchase order number to fully confirm the booking.	
* Total Fees Due (THIS 2-day course) <b>£1,495 [GBP]</b> per delegate	NOTE: If your finance centre or delegates are based in the United Kingdom (UK), the course fee will be subject to an additional 20% UK VAT charge ( <b>£1,794</b> [2-day]) or <b>£2,994</b> [4-day] per delegate including UK VAT).	
Total Fees Due (4-day option) <b>£2,495 [GBP]</b> per delegate	For EU Countries where finance centres and delegates are NOT based in the UK, VAT will be ZERO RATED under the reverse charge rule. For non-EU countries and non-EU delegates, VAT is not applicable.	

**Booking Confirmation:** A booking confirmation will be sent to the delegate or booking contact on receipt of payment, or in the case of bank transfer, following receipt of a valid purchase order reference.

**Course Fee & VAT Liability:** For the majority of participating countries, VAT will be ZERO rated or not applicable. However, for companies whose finance centre is based in the United Kingdom (location where invoices are managed) or delegates are UK based, the indicated course fee will be subject to an additional 20% UK VAT charge. CVS has to charge this by law. For EU Countries where finance centres and delegates are NOT based in the UK, VAT will be ZERO RATED under the reverse charge rule. For non-EU countries and non-EU delegates, VAT is not applicable.

All participating EU based companies (based on the site location), must provide CVS with a valid VAT/Sales Tax reference number, in order for the booking to be completed. CVS is required by law to collect this information.

**Cancellation:** Cancellation refunds will depend on how long before the course start date the cancellation is received. The following refund structure will apply, based on the date the cancellation is received by CVS:

- More than 28 days will incur a cancellation fee of £200 GBP per registration and qualify for a refund of the remaining course fees
- Between 28 days and 14 days notice will qualify for a 75% refund
- Between 14 days and 7 days notice will qualify for a 50% refund
- No refund will be given for cancellations received with less than 7 days notice
- Substitutions for registered delegates will be accepted without notice

CVS reserves the right to cancel or reschedule any course and/or change presenters. Please be advised that CVS is not responsible for any airfare and/or hotel penalties or other travel charges that delegates may incur.

Where government intervention, military activities, natural phenomenon, strikes or any other circumstances make it impossible or inadvisable to run the course at the designated time and place, the delegate shall waive any claim for damages or compensation except the amount paid for registration after the deduction of actual expenses incurred by CVS in connection with the course that the delegate has registered for and there shall be no future liability on the part of either party.

Please visit our web site for full terms and conditions (see the link at the top of this page).

**Please note that by completing the booking form (opposite) you agree to our Terms and Conditions.**

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