



Compliance & Validation Services

Presents a 3-Day Online Training Course on:

Restricted Access Barrier Systems (RABS) and Isolator Technology

27, 28 and 29 September 2022

Live Online Training Course



September 2022						
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	

Click on the calendar to go to the web page for this course

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- Key regulations and guidelines, including the new EU Vol 4, Annex 1
- Latest industry trends for Aseptic Manufacturing
- Management of contamination
- Risk assessments
 - General RABS / Isolators vs. cleanroom operational risk assessments and quantification of risk
- Uses for RABS and Isolator Systems
- Types of systems available and key design / operational considerations
 - E.g. positive pressure, negative pressure, open or closed, rigid walled and flexible walled
- Particle monitoring and systems available (including airborne rapid micro sampling)
- Facility and HVAC system design considerations
- Development and optimisation of cleaning and sanitisation cycles
- Equipment, facility and environmental qualification / verification
- Performance qualification of automated H₂O₂ decontamination cycles
- Routine testing and maintenance requirements
 - Leak tests, inspection, typical maintenance requirements, Requalification requirements

Course Summary: Restricted Access Barrier Systems (RABS) and Isolator Technology - 27, 28 & 29 September 2022 - Live Online Training Course

This course covers the design, installation, qualification and operation of isolator systems and restricted access barrier systems (RABS), as used in aseptic manufacturing. It looks at the choices of systems available and the advantages and disadvantages of using Isolators and RABS over traditional Aseptic Manufacturing. The course also covers system design (types of systems, ergonomics, air classification and air-flow requirements) and the qualification / verification of the equipment systems involved, including facility and HVAC systems for isolators/RABS and surrounding/supporting areas.

Also included in the course, is the development, optimisation and qualification of sporicidal decontamination cycles, together with requirements for operation, maintenance, testing, inspection and monitoring of the systems and environments involved. The impact of any changes to EU Annex 1 on the design and operation of RABS/isolator systems will be discussed, together with the latest developments in gloveless automated isolators.

Presenters



Mike James, Director, Compliance & Validation Services Limited.

Mike has nearly 30 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.



Industry Expert: Our industry expert has many years of experience in the field of aseptic/advanced aseptic manufacturing and is an accomplished presenter.



Philip Templeton, Managing Director, Aseptic Technology & Design Ltd.

Phil has over 20 years of aseptic processing experience and speaks regularly on the practical application of isolator and barrier technology with particular focus on projects involving new developments and validation techniques. He's previous experience includes client-side project management for major new facility builds for aseptic processes and production operations management with Medeva, Celltech and Smith and Nephew. Phil holds a BSc (Hons) in Bacteriology and Virology from the University of Manchester.

Who Should Attend

This interactive course has been designed for personnel from a range of disciplines. These include production, technical, engineering and quality assurance roles. It is aimed at those who are new to Isolator / RABS technology or those who are looking to expand their knowledge in this area. On leaving this course attendees will: have a better understanding of the types of systems and options available for Aseptic Manufacturing; appreciate the pros / cons and applicability of the different types of systems; understand key considerations for the design, qualification / verification and operation / maintenance of RABS and Isolator systems; appreciate the different requirements for facility / HVAC systems in supporting areas; be able to apply and share their new knowledge; improve their individual effectiveness and look back on a valuable experience.

Online System & Course Fees

We use the industry leading GotoWebinar®, LogMeIn, Inc. platform for our online training courses. It's intuitive and simple to use, however we do recommend that you check your system's compatibility using the 'CHECK SYTEM COMPATIBILITY' link provided below (we use 'standard webinar'). To find out more about how our online training process works, from booking through to the end of the course, please click on the 'HOW IT WORKS' link provided below.

[CHECK SYSTEM COMPATIBILITY](#)

Course fees are **£1,495.00 (GBP)** per attendee.
(See Page 4 for further details on fees/bookings)

[HOW IT WORKS](#)



RABS and Isolator Technology - Live Online Training Course - Programme:

Start Time: 08:00 London/Dublin; 09:00 Berlin/Amsterdam - Please join the course at least 5 minutes before the start.

DAY 1 (Tuesday 27 September 2022)	Day 2 (Wednesday 28 September 2022)	Day 3 (Thursday 29 September 2022)
Start: 08:00 London/Dublin; 09:00 Berlin/Amsterdam	Start: 08:00 London/Dublin; 09:00 Berlin/Amsterdam	Start: 08:00 London/Dublin; 09:00 Berlin/Amsterdam
Introduction to Cleanrooms, Isolators and RABS [Industry Expert]: <ul style="list-style-type: none"> History of cleanrooms Classification of controlled environments Achieving and maintaining cleanliness levels Cleanrooms, isolators and RABS for the pharmaceutical industry 	Facility Design Considerations for RABS and Isolators [Industry Expert]: <ul style="list-style-type: none"> Regulatory authority considerations and expectations Layout, flow and personnel entry Surfaces and finishes General cleanroom fittings Plant room Cleanroom garments for effective control Aseptic behaviours and practices 	Automated H₂O₂ Decontamination Cycles [Phil Templeton]: <ul style="list-style-type: none"> Why use automated H₂O₂ decontamination cycles? Cycle deliverables Properties of H₂O₂ vapour Considerations for cycle design Structure of cycle development studies Room decontamination cycles
RABS, Key Design and Operational Considerations [Industry Expert]: <ul style="list-style-type: none"> Introduction to RABS Basic Operating Principles Types of RABS and RABS Developments Gaseous Vapour Phase Decontamination Interventions and Transfers Operating Systems RABS Selection Matrix 	Terminal HEPA Filters [Industry Expert]: <ul style="list-style-type: none"> The origins of the HEPA filter HEPA filters as a key contamination control method HEPA filter installation leak testing Regulatory guidelines for cleanroom HEPA filters HEPA filter in-situ leak testing failure - Group Exercise 	System Qualification Overview [Mike James]: <ul style="list-style-type: none"> System and component level impact summary (what systems require qualification and what so not) What will adoption of ASTM E2500-07 mean? Overview of Quality Risk Assessments and how this can be used to determine level, depth and scope of testing required Typical tests required to qualify systems
Isolator Design Considerations [Phil Templeton]: <ul style="list-style-type: none"> What do we mean by the term isolator? Uses and types Construction materials and compatibility Generic isolator sub-systems: <ul style="list-style-type: none"> Air handling systems, sanitisation systems, transfer systems Monitoring and control Ergonomics & Automation 	Cleanrooms, RABS or Isolators [Industry Expert]: <ul style="list-style-type: none"> Aseptic Integrity Spectrum Assessment of microbial risk to patient from aseptically prepared products Microbial risk during manufacture Microbial risk during shelf life Operational considerations for RABS or Isolators 	PQ of H₂O₂ Decontamination Cycles [Phil Templeton]: <ul style="list-style-type: none"> Interpretation of BI data BI variability How should BIs be used PQ strategy BIs as sensors
Risk Management of Contamination [Industry Expert]: <ul style="list-style-type: none"> Fundamental mechanism of contamination Sources of contamination (particularly humans) Routes of transfer and risk diagrams General RABS/Isolators vs. cleanroom operational risk assessments and quantification of risk Management/control of risk 	Operational Considerations for Isolators [Phil Templeton]: <ul style="list-style-type: none"> Regulatory perspectives Product related considerations <ul style="list-style-type: none"> Environmental requirements What components will need aseptic manipulation Hazardous properties Manufacturing related considerations <ul style="list-style-type: none"> What activities will take place inside/outside of the isolator? Transfer mechanisms 	Routine Testing and Maintenance of Isolators [Phil Templeton]: <ul style="list-style-type: none"> Leak tests Inspection Typical maintenance requirements Requalification requirements
Particle Monitoring [Mike James]: <ul style="list-style-type: none"> How optical particle counters work Particle counting technology (including airborne rapid micro sampler) Classification v monitoring of clean zones Classification worked examples FDA CGMP & EU GMP Annex 1 compliance. 	HVAC System Requirements For Surrounding Areas [Mike James]: <ul style="list-style-type: none"> Differences between HVAC requirements for RABS & Isolators Typical HVAC system requirements and Considerations for areas supporting RABS/Isolators Impact of Isolators on the surrounding environment Typical HVAC system control requirements 	Environmental Monitoring [Mike James]: <ul style="list-style-type: none"> Typical routine non-viable and viable particle monitoring requirements for RABS and Isolators Periodic Monitoring requirements Key differences between surrounding environment testing for RABS and Isolators

Finish: 16:00 London/Dublin; 17:00 Berlin/Amsterdam

Finish: 16:00 London/Dublin; 17:00 Berlin/Amsterdam

Finish: 16:00 London/Dublin; 17:00 Berlin/Amsterdam

How to book on this course:

- The simplest and quickest way is to book online. Please visit/return to our web-site, find the online course you are interested in and follow the simple instructions (link included below), or
- Print out this page, complete the form below by hand and return by fax, email or post.

[CLICK HERE TO BOOK ONLINE](#)

Fax: +44 (0)1625 800833

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

E-mail: 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>		
*Attendee Information:	Attendee Name(s):	Attendee Email Address:
Company VAT Number (or Sales Tax Number) – *EU Countries Only		
*Method of payment, e.g. card or invoice payment	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.	
Payment Reference (if available)	NOTE: For invoice payments we will need a valid purchase order number to fully confirm the booking.	
* Total Fees Due £1,495 [GBP] per attendee	NOTE: If your finance centre or attendees are based in the United Kingdom (UK), or attendees are booking as private individuals (non-company), the course fee will be subject to an additional 20% UK VAT charge (£1,794 per attendee including UK VAT). For EU Countries where finance centres and attendees are NOT based in the UK, VAT will be ZERO RATED under the reverse charge rule. For non-EU countries and non-EU attendees, VAT is not applicable.	

Booking Confirmation

Bookings will only be confirmed upon payment by credit card, or in the case of invoice payment (bank transfer), upon receipt of a valid purchase reference number.

Cancellation by Attendees

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

- More than 7 days will qualify for a refund of the course fee paid after the deduction of actual expenses incurred by CVS in connection with the course that the attendee has registered for and there shall be no future liability on the part of either party.
- No refund will be given for cancellations received with less than 7 days' notice.
- Substitutions for registered attendees from the same company will be accepted without notice, but for administration purposes, we kindly ask you to let us know as soon as you can.

Cancellation by CVS

CVS does not issue refunds for attendees unless:

- We have cancelled a course.
- We have changed the time or date of a course.

If we do cancel or reschedule an event, CVS is not responsible for any costs incurred by attendees. Only the course fee will be refunded.

Please be assured that we are not in the habit of cancelling events. We only cancel events in exceptional circumstances.

Speaker/Presenter Changes

We reserve the right to change a speaker without notice.

Course Attendees

If you click 'yes' to 'include my name/company' on the attendees list', when completing the online booking form, your name and company will be included on the list and distributed to all the participants.

Before you commit to booking onto a webinar, we expect you to check your system compatibility with the GoToWebinar® platform using the links provided.

Course Fee & VAT Liability

For the majority of participating countries, VAT will be ZERO rated. However, for companies whose finance centre is based in the United Kingdom (location where invoices are managed) the indicated course fee will be subject to an additional 20% UK VAT charge. Also, anyone booking as a private individual (not through a company) will be charged UK VAT. CVS has to charge this by law. All participating EU / EEA 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.

Liability

CVS reserve the right to cancel or reschedule any course and/or change presenters.

CVS will not provide a refund for an online course, if an attendee cannot use the GoToWebinar® (by LogMeIn) system, because of local IT restrictions.

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