



**honeyman**  
TRAINING



# Cleanrooms

Principles in Practice®

# Cleanrooms Principles in Practice®

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**3 Days Virtual Training**



## Who Should Attend?

All personnel involved in the operation and management of cleanrooms, including:

- Engineers
- Validation
- QA
- Operations Personnel

Suitable for all levels: Graduate to Professional

**The Cleanrooms: Principles in Practice® course provides a holistic view of the design, operation and management of cleanrooms, and is suitable for all personnel who work in or manage a cleanroom environment.**

The course has been developed by industry experts in cleanroom design, cleanroom validation, microbiology and quality assurance.

## Course Objectives & Learning Outcomes

- Develop fundamental principle knowledge of all personnel involved in the management and operations of cleanrooms.
- To be able to apply the knowledge gained to participate in risk assessments and investigations in their own facility.
- Have been provided the background on how GMP regulations and ISO standards define cleanroom design, operation and validation.
- Understand the main sources of microbiological contamination and how to control and minimise them within the cleanroom.
- Recognise current best practices for gowning, changing and operator qualification.
- Appreciate the features of cleanroom facility design and how the type of product and operations influence the design.
- To understand the qualification of HVAC systems and how to interpret data.
- To understand key tests involved in cleanroom qualification, smoke testing and particle counting.
- To understand how to use impact assessment to define system boundaries and identify critical components.
- Be able to present a cost-effective approach to validation of cleanrooms.
- Appreciate cleaning and maintaining control within the cleanroom.

# Course Programme

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Honeyman is renowned for industry leading GMP knowledge-transfer, lectures, consultancy and courses, delivered online and in-person.

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## **DAY ONE**

- Cleanroom Design
- Microbiology Refresher
- Pharmaceutical Cleanrooms
- HVAC Systems
- Microbiology Practical
- HEPA Filters

## **DAY TWO**

- RABS and Isolators
- Cleaning and Disinfection
- Environmental Monitoring
- Particle Monitoring
- Cleanroom Testing and Classification
- People as a Contamination Source
- Risk Management of Contamination

## **DAY THREE**

- Cleanroom Behaviours and Disciplines
- Cleanroom Clothing
- Cleanroom Energy Considerations
- Comparison of EU and US Standards
- Cleanroom Qualification

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