



honeyman
TRAINING

Cleanrooms

Principles in Practice®



THE QUEEN'S AWARDS
FOR ENTERPRISE

CLEANROOMS

PRINCIPLES IN PRACTICE®

Overview

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.

The most effective way of understanding cleanroom operations is to be involved in hands-on exercises, demonstrations and workshops, therefore, this course consists of 50% lectures and 50% practical.



[Click for full details](#)

Who Should Attend?

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

- engineers,
- QA staff,
- validation and
- operations personnel.

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



CLEANROOMS PRINCIPLES IN PRACTICE®

Course Programme

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
Microbiological Practical Results



Teesside
University

In
partnership
with

Teesside University, the Honeyman Group has introduced the professional qualification **Accredited Specialist**. Candidates completing the **UCPD** option in this course are able to demonstrate technical expertise and competency through a formal qualification.



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All courses can be booked online:

[Cleanrooms: Principles in Practice®](#)

[Pharmaceutical Water Systems](#)

[Microbiology for Non-Microbiologists](#)

[Sterile Product Manufacture](#)

[Cleaning Validation](#)

[Pharmaceutical Sterilisation](#)

[Microbial Risk Management In
Cleanroom Operations](#)

[Biotechnology: Principles in Practice®](#)

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