SQT

TRAINING THAT DEVELOPS *REAL* CAPABILITY

Cleanroom Microbiology

LS011

Cleanroom Microbiology

Cleanroom facilities rely on robust environmental monitoring to ensure product safety and regulatory compliance. This course provides essential core knowledge in cleanroom microbiology by helping learners understand the purpose, value and application of microbiological monitoring from initial cleanroom validation to routine monitoring. It focuses on determining the necessary monitoring, selecting risk based locations, applying best practice methods with a strong focus on aseptic technique, and interpreting results to support informed decisions that safeguard product quality and patient safety."

Many organisations do not have an on-site microbiologist, resulting in various departments assuming responsibility for environmental monitoring. This course supports learners in building clarity around standard and regulatory expectations, monitoring methods, result interpretation and the potential consequences of microbial contamination within a cleanroom environment.

Duration & Price

Duration: 1 day
Public Virtual Training: €425
Delivery mode: This programme is available In-Company, and via Public Virtual Training

Dates & Locations

Date	Venue	
22 Feb 2027	Virtual	Book Date

In-Company Training

Please contact us for more information on our In-Company training options

What's covered?

This programme offers learners a structured and operational understanding of cleanroom environmental microbiology monitoring. The content is aligned to ISO (14698, 17141, 14644-1, 14644-2) and regulatory (Eudralex) requirements for real-world cleanroom operations, helping learners identify risks, plan monitoring effectively and address microbial and particulate issues with confidence.

Topics include:

- Introduction to Microbiology
- Cleanroom Validation (At Built, At Rest & In Operation)
- Environmental Monitoring Programme design
    - Selecting appropriate microbiological sampling methods
    - Identifying sampling locations through risk assessment
    - Creating a robust sampling map
    - Defining suitable sampling frequencies
    - Establishing alert and action limits
    - Analysing and Interpreting microbial monitoring data
    - Managing out of specification results
    - Conducting effective investigations
    - Applying best practices in reporting, trending, and documentation
- Core principles of Particulate Monitoring
- Product Testing - Bioburden & LAL testing

Who should participate?

This course is suitable for individuals participating in new cleanroom design and construction projects, personnel involved or managing environmental monitoring activities within a cleanroom or individuals conducting investigations into out of specification results

Typical participants include:

- Personnel engaged in new cleanroom build projects
- Those involved in cleanroom monitoring or testing
- Individuals responsible for environmental monitoring results or investigations

A good standard of written and spoken English is important to engage effectively with this programme.

What will I learn?

On successful completion of this course, learners will be able to:

- Understand the standard and regulatory expectations of environmental monitoring within cleanrooms
- Understand cleanroom validation and requalification requirements
- Establish and maintain an effective Environmental Microbiological and Particulate Monitoring Programme
- Apply appropriate sampling methods and determine sampling frequencies
- Interpret microbial and particulate monitoring data accurately
- Set and review alert and action limits
- Conduct effective investigations and manage out of specification results
- Document findings clearly and recommend suitable corrective actions

These outcomes equip learners with the skills, knowledge and capabilities required to strengthen cleanroom monitoring practices and support contamination control.

How do we train and support you?

This programme is led by a highly experienced tutor, with extensive industry expertise, ensuring learners benefit from realworld insight and experience and allowing learners to gain knowledge grounded in years of practical and technical understanding.

Support Includes:

- Pre-training consultation for in-company courses to tailor content to organisational needs
- Emphasis on industry specific application enriched by the tutor's comprehensive knowledge and longstanding professional experience that reinforce key concepts and encourage active participation.
- Access to comprehensive course material that is regularly reviewed and updated to reflect the latest industry standards and guidance.
- Live training is available virtually or delivered onsite to suit the needs of the team
- Real-time support from expert Tutors

Class sizes are generally limited to 12-15 participants to support personalised learning and individual support.

Tutors

Kevina O’Donoghue
View Profile

What Our Learners Say

We believe in excellence through transparency and continuous improvement. That's why we invite all our delegates to share their experiences on CourseCheck.com, an independent platform dedicated to genuine, unfiltered feedback. Learner insights help us not only to enhance our training programmes but also empower potential learners to make informed decisions. Click on the link below to read firsthand experiences and testimonials from past learners.

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- Food Safety
- Life Sciences
- Laboratory
- Integrated Management Systems

LEADERSHIP & PERSONAL DEVELOPMENT

- Leadership & Personal Development
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QQI AWARD | IEMA - APPROVED - | CompEx Part of the JTL Group | FSPCA FOOD SAFETY PREVENTIVE CONTROLS ALLIANCE | CQI IRCA APPROVED TRAINING PARTNER | Chartered Institute of Environmental Health

SQT Training Ltd. | T: +353 61 339040 | E: info@sqt-training.com
W: sqt-training.com

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