



CompuPharma Presents Essential Microbiologist™ for Regulated Industries

A modern microbiology laboratory faces a variety of regulatory and operational challenges including:

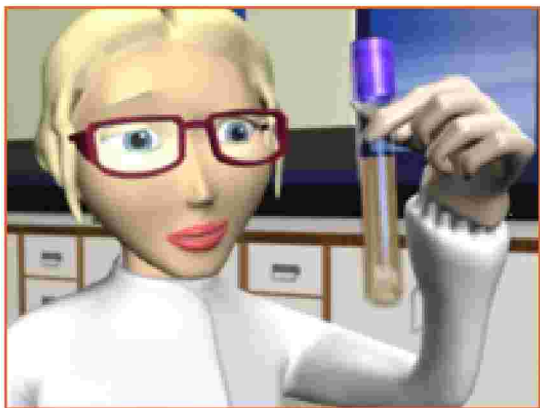
- Operating in compliance with GMP and other applicable industry regulations
- Optimizing use of available resources
- Consistently generating reliable and trustworthy data
- Minimizing errors, levels of retesting and waste

These challenges cannot be successfully met without the input of a competent, well-trained workforce.



"The laboratory staff was not knowledgeable in performing microbial testing of finished product including proper sampling technique and plating."
 - extract from FDA Warning Letter -

CompuPharma's Essential Microbiologist™ e-Learning curriculum is specially designed for microbiologists in regulated industries such as Finished Dose Pharmaceuticals, API/Bulk chemical manufacturing, Biotechnology, and Medical Devices. It provides critical knowledge in key areas such as current Good Manufacturing Practice (CGMP), laboratory practices, techniques, and health and safety issues. Accessed via the Internet or your company's intranet, each Essential Microbiologist™ course is a multimedia learning experience that combines text, graphics, animation and audio to present critical knowledge in an engaging and interactive way.



Equipped with such knowledge, the transition from trainee to competent Analyst is made smoother and more efficient. **Standard Operating Procedures (SOPs)**, with their own particular industry jargon, become easier to understand. **On-the-Job Training** becomes more effective as trainees comprehend what they see and hear.

To help you build a competent, well-trained workforce that can confidently meet your company's compliance and operational challenges, CompuPharma recommends completion of the following Essential Microbiologist™ courses:

Course Code: ML-GMP
Course Title: Essential GMP for Microbiologists

This course covers everything an entry-level microbiologist needs to know about current Good Manufacturing Practice (CGMP) in a microbiological laboratory.

It begins by introducing the different types of microorganisms that can contaminate medicinal products. It then goes on to introduce GMP and explain its importance in a microbiology laboratory and the rules and guidelines for handling infectious material.

Topics Covered:

- Basic Microbiology
- GMP for Microbiology



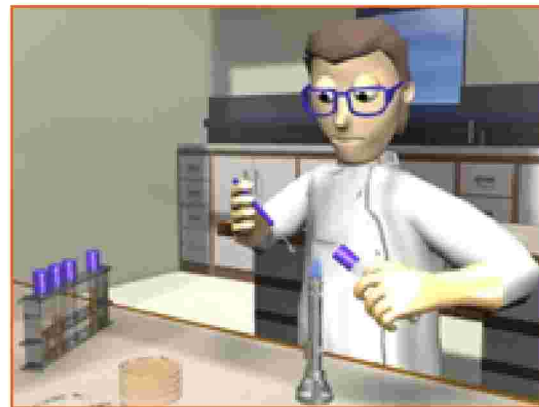
Course Code: ML-LPS
Course Title: Microbiology Laboratory Practices

This course covers the key critical techniques and practices that are required knowledge for all competent microbiologists.

It covers basic microbiological techniques such as media preparation, pure culture techniques and the pour plate technique. The application of good aseptic technique to microbiological testing is described in detail.

A key tool in microbiology - the microscope - is comprehensively covered by explaining its main components and key microscopic techniques.

The main categories of staining - simple, differential, and structural - are described along with the different staining techniques commonly used in a microbiology laboratory. Finally, the concept of unknown bacterial identification is explained and the morphological and cultural tests carried out to identify unknowns.



Topics Covered:

- Principles of Good Aseptic Technique
- Introduction to Microscopy
- Staining Techniques
- Basic Microbiological Techniques
- Introduction to Staining
- Unknown Bacterial Identification

Course Code: ML-HAS
Course Title: Health and Safety in the Microbiology Laboratory Operators

Health and Safety in the Microbiology Laboratory begins with a description of the different classes of microorganisms and the hazards associated with handling each class. It goes on to describe safe work practices in the microbiology laboratory when working with equipment such as isolators, syringes and centrifuges.

The course continues with an explanation of the different types of safety signs and the role they play in ensuring safety in the workplace.

Lastly, it describes the different categories of microbiological waste and the correct procedures for handling, transport and storage of this waste.

Topics Covered:

- Safety Symbols
- General Safety Hazards in the Microbiology Lab
- Microbiological Laboratory Waste
- Safe Work Practices in the Microbiology Lab