

Calibration and Supervision of Maintenance of  
Equipment in Biomedicine

*Barcelona (Spain)*

*3 - 7 February 2025*

UK Traininig

**PARTNER**



# Calibration and Supervision of Maintenance of Equipment in Biomedicine

Code: HM28 From: 3 - 7 February 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

This course offers comprehensive training in the calibration and oversight of biomedical equipment maintenance. Participants will develop the essential knowledge and hands-on skills needed to ensure equipment operates efficiently and safely within healthcare settings. The program encompasses foundational concepts of equipment calibration, preventative maintenance, troubleshooting techniques, and supervisory practices for effective team management.

## Course Objectives

- Grasp the principles and importance of biomedical equipment calibration and maintenance.
- Create and execute effective maintenance schedules.
- Oversee maintenance teams, ensuring adherence to safety regulations.
- Diagnose and resolve common equipment issues and perform necessary repairs.
- Maintain thorough documentation for calibration and maintenance activities.

## Course Outlines

### Day 1: Introduction to Biomedical Equipment and Calibration Fundamentals

- Overview of biomedical equipment usage in healthcare.
- Importance of calibration for accuracy and reliability.
- Understanding measurement standards and calibration techniques.
- Introduction to calibration instruments and tools.
- Review of relevant regulatory standards and guidelines.

### Day 2: Preventive Maintenance Approaches

- Developing a comprehensive preventive maintenance strategy.
- Identifying typical maintenance problems and their root causes.
- Structuring maintenance schedules and timelines.
- Analyzing factors that impact equipment longevity and performance.
- Case studies showcasing preventive maintenance in practice.

### Day 3: Supervisory Skills for Biomedical Equipment Maintenance

- Defining the role and responsibilities of a maintenance supervisor.
- Training and managing maintenance personnel.
- Ensuring adherence to safety and quality protocols.
- Effective communication and collaboration with healthcare teams.



- Monitoring team performance and compiling reports.

#### Day 4: Troubleshooting and Repairing Biomedical Equipment

- Basic troubleshooting techniques for common equipment issues.
- Approaches for fault diagnosis and repair processes.
- Conducting post-repair calibration and adjustments.
- Practical, hands-on troubleshooting exercises with specific equipment.
- Emergency maintenance strategies and protocols.

#### Day 5: Documentation and Compliance

- Best practices for recording calibration and maintenance efforts.
- Ensuring compliance with national and international standards.
- Utilizing electronic records and equipment management software.
- Auditing and reviewing maintenance and calibration documentation.
- Final course assessment and program conclusion.



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