



CAMBRIDGE
Expert Training Forum®

EXPERT MBA



CLINICAL TRIALS AND LABORATORY MANAGEMENT

5 Months
Online (Part-Time)

TABLE OF CONTENTS

- 02 OVERVIEW
- 03 THE VISION BEHIND THE PROGRAMME
- 04 PROGRAMME CONTENT
- 09 LEARNING OBJECTIVES
- 11 CAREER OUTCOMES
- 13 DESIGN AND DELIVERY
- 14 DUAL CERTIFICATION

OVERVIEW

The Expert MBA Certificate in Clinical Trials and Laboratory Management is an intensive, multidisciplinary 5-month programme designed to prepare the next generation of managers, practitioners, and innovators in clinical trial and laboratory health and safety management.

The MBA Certificate Programme in Clinical Trial and Laboratory Management is a comprehensive, industry-focused course designed to equip professionals with the expertise required to manage clinical research and laboratory operations efficiently and compliantly. As clinical trials become increasingly complex and globally regulated, there is a growing demand for professionals who can combine scientific knowledge with strong managerial and operational capabilities.

This programme bridges the gap between clinical research practices and business management, preparing participants to oversee clinical trial processes, manage

laboratory environments, and ensure adherence to regulatory and quality standards. With a strong emphasis on project planning, operational efficiency, risk assessment, and SOP-driven laboratory practices, learners will gain the skills needed to deliver high-quality outcomes in both research and laboratory settings.

In addition to core management modules, the programme offers hands-on exposure through specialized laboratory training, including ELISA, Flow Cytometry, and Cell Culture techniques, ensuring participants are both technically competent and operationally effective.

THE VISION BEHIND THE PROGRAMME

The Expert MBA Certificate Programme in Clinical Trial and Laboratory Management is founded on a clear and progressive vision: to develop highly capable professionals who can effectively lead, manage, and innovate within the increasingly complex and regulated world of clinical research and laboratory operations.

The global clinical research landscape is evolving rapidly, driven by advances in science, stringent regulatory requirements, and the growing demand for faster, safer, and more efficient drug development. This transformation requires professionals who are not only technically skilled but also possess strong management, operational, and decision-making capabilities. The vision of

this programme is to bridge this gap by creating individuals who can seamlessly integrate clinical expertise with business and leadership acumen.

A key pillar of this vision is to strengthen the operational efficiency of clinical and laboratory environments. Modern laboratories and clinical trial sites require streamlined processes, effective resource management, and meticulous record keeping.

The programme aims to empower learners to address operational challenges, optimize workflows, and maintain robust systems for inventory, documentation, and compliance.

PROGRAMME CONTENT

UNIT 1: CLINICAL TRIAL ASSOCIATE

This Unit will provide you with the essential skills and experience you need to work in a clinical trial environment. It will equip you with the expertise and understanding of clinical trial safety, project planning, operational issues, managing risk assessments, and managing customer relationships.

To get a clinical trial-related role, you need specific work-based skills and relevant experience to work in an international pharmaceutical environment. The aim of this Unit is to develop these specific skills.

Part 1: Project planning

In this part, you will learn and gain experience in planning

research and/or clinical projects. You will solve challenges and tasks to enhance your understanding of planning projects. The tasks include planning projects according to the given deadline and project proposal. It will help you planing projects in your career.

Part 2: Operational issues

You will gain skills in solving operational issues related to clinical trials and/or drug development. You will also understand operational issues and challenges that may occur in your future work.

PROGRAMME CONTENT

Part 3: Manage risk assessment

In this part, you will gain experience in managing risks and completing tasks related to risk management. You will be provided with learning material to enhance your knowledge and understanding of risk management and assessment.

Part 4: Customer relationship

You will learn about customer relationships and solve issues through challenging tasks. You will also gain experience in understanding customer requirements and responding to customer queries.

UNIT 2: LABORATORY MANAGEMENT

This training will provide you with the essential skills and experience you need to work in a laboratory environment. It will equip you with the expertise and understanding of Standard Operating Procedures (SOPs), laboratory health and safety, project management, team management issues, managing risk assessments, and maintaining laboratory stocks.

Part 1: Laboratory SOPs and risk assessment

In this part, you will learn and gain experience in following SOPs and risk assessment. You will work on tasks to enhance your understanding of laboratory risk assessment. The tasks include learning guidelines and

PROGRAMME CONTENT

laboratory SOPs and working on risk assessment procedures. It will help you in your laboratory-related role.

Part 2: Maintain laboratory stocks and record keeping

You will gain skills in maintaining laboratory stock and record-keeping through given tasks. You will also understand the challenges and issues that may occur in your future laboratory work.

Part 3: Project management

You will learn about managing your projects through challenging tasks. You will also gain experience in understanding project management principles and applying them to your project.

Part 4: Team management

In this part, you will gain skills and experience in team management and communication. You will solve team management issues through challenging tasks. You will also gain experience in understanding relationships and responding to team management issues.

UNIT 3: LABORATORY SKILLS IN BIOSCIENCE

This course is designed to equip you with the knowledge you need to work in a bioscience lab and biomedical research projects. Learn the essentials of cell culture techniques, covering cell lines, aseptic practices, and the use of different culture systems. You'll gain the essential knowledge and skills required to work in a laboratory setting.

PROGRAMME CONTENT

This course aims to provide knowledge of laboratory techniques and cell imaging methods to participate in bioscience research.

Part 1: Basic laboratory health and safety

Understand the importance of laboratory safety in scientific research. Explore the basics of risk assessment and hazard identification. Learn about the selection, proper use, and maintenance of personal protective equipment. Understand how PPE contributes to minimizing exposure to hazardous materials. Familiarize yourself with common laboratory hazards and safe handling procedures. Learn about the health and safety issues and requirements to work in a bioscience laboratory.

Part 2: Cell culture techniques

Cell culture refers to the removal of cells from a living subject and their subsequent growth in an artificial environment. Gain insight into the various types of cells used in culture and their applications. Understand the composition and selection of appropriate cell culture media. You will study cell culture methods and the morphology of cells in culture. Learn to prepare and optimize culture solutions for specific cell types. Learn techniques for initiating and establishing cell lines. Explore strategies for routine maintenance. Gain insights into specialized culture techniques for specific cell types.

PROGRAMME CONTENT

Part 3: Enzyme-Linked Immunosorbent Assay (ELISA) and Flow Cytometry Techniques

This part will provide a comprehensive exploration of two powerful techniques – Enzyme-Linked Immunosorbent Assay (ELISA) and Flow Cytometry. You will gain a deep understanding of these critical tools in the realms of diagnostics, immunology, and cellular analysis. Understand the principles of ELISA and its applications in quantitative and qualitative analysis of proteins. Understand the principles of flow cytometry and its applications in single-cell analysis. Explore the components of a flow cytometer and their functions.

Part 4: Fluorescence microscopy

This part provides a comprehensive journey into the principles, techniques, and applications of fluorescence microscopy. Explore the fundamental principles of fluorescence and how it is harnessed in microscopy. Understand the advantages of fluorescence microscopy in visualizing live cells and subcellular structures. Understand the components of a fluorescence microscope and their roles in image formation. You will learn the principle of fluorescence microscopy technique, an in-depth review of cell imaging, confocal microscope, and super-resolution microscope.

LEARNING OBJECTIVES



1

Understand Clinical Trial Processes

Gain a clear understanding of clinical trial phases, protocols, and regulatory requirements

2

Develop Project Planning Skills

Learn to design, plan, and coordinate clinical and laboratory projects effectively

3

Apply Risk Assessment & Management

Recognize potential risks and implement mitigation strategies to ensure safety and compliance

LEARNING OBJECTIVES



4

Master Laboratory SOPs

Develop and implement Standard Operating Procedures aligned with industry standards

5

Enhance Project Management Skills

Execute projects efficiently with a focus on timelines, budgets, and performance tracking

6

Gain Laboratory Skills

Acquire knowledge in lab safety, ELISA, flow cytometry, and cell culture techniques

CAREER OUTCOMES

Clinical Trial Project Executive / Coordinator:

Work closely with sponsors, CROs, and research teams to deliver successful study outcomes

Laboratory Operations Manager:

Lead laboratory functions with a focus on efficiency, compliance, and SOP-driven processes

Clinical Research Associate (CRA):

Play a key role in ensuring regulatory compliance and patient safety

Quality Assurance & Compliance Specialist:

Ensure adherence to global regulatory standards and quality frameworks

Laboratory Analyst / Technical Specialist:

Apply expertise in ELISA, flow cytometry, and cell culture techniques

Clinical & Lab Project Manager:

Lead complex projects across clinical and laboratory environments

Client & Customer Relationship Manager (Clinical Services):

Deliver high-quality service while managing expectations and project outcomes

CAREER OUTCOMES

Your Competitive Edge

Dual Expertise Advantage:

A unique blend of clinical research knowledge, laboratory skills, and MBA-level management training

Hands-On Practical Skills:

Real-world exposure to essential lab techniques and safety practices

Leadership Readiness:

Equipped to take on supervisory and managerial roles early in your career

Industry-Relevant Knowledge:

Aligned with global clinical trial standards and laboratory best practices

Operational & Strategic Versatility:

Ability to work across clinical operations, lab management, quality, and client-facing roles

A Pathway to Long-Term Growth

- Advance into senior roles in clinical research and laboratory management
- Explore global opportunities in pharma, biotech, and CRO industries

DESIGN AND DELIVERY

This online programme is delivered on our internationally recognised virtual learning platform (Moodle). The programme is self-paced, and it can be completed on your schedule within the programme's duration. The programme includes recorded lectures, templates, learning material, ebooks, real-life scenarios, and practice tasks.

This programme is designed in collaboration with our partner institute, the **Cambridge Centre for Innovation and Development, UK.**

DUAL CERTIFICATION



1 After completing (passing) all the parts of this programme, you will be provided with an e-certificate of completion for the Expert MBA programme at the **Cambridge Expert Training Forum**.

2 You will also receive an additional e-certificate (free of cost) for completing the Professional Certificate by our partner institute, the **Cambridge Centre for Innovation and Development, UK**.



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