

Medical Research Training Course

Professional Development Training Course Outline

Category	Research and Data Analysis	Duration	5 Days
Base Fee	\$1,500 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

Medical research is the cornerstone of advancing healthcare, improving patient outcomes, and fostering innovative solutions to global health challenges. Medical Research Training Course equips professionals with cutting-edge skills in clinical trials, data analysis, regulatory compliance, and translational research. Participants will gain hands-on experience in evidence-based methodologies, biostatistics, ethical research practices, and emerging trends such as AI-driven diagnostics, precision medicine, and real-world data analytics.

The program emphasizes practical application through interactive workshops, case studies, and collaborative projects, ensuring participants can design, implement, and interpret high-quality research. By bridging theory with practice, this course empowers healthcare professionals, scientists, and academics to contribute meaningfully to medical innovation and global health improvement.

Programme Curriculum

Medical Research Training Course

Introduction

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Course Duration

5 days

Course Objectives

1. Master clinical research methodologies and study design optimization
2. Develop skills in biostatistics, data management, and statistical software
3. Understand ethical standards and regulatory compliance in medical research
4. Gain expertise in systematic reviews and meta-analysis
5. Apply translational research principles to clinical practice
6. Implement AI and machine learning in healthcare research
7. Enhance knowledge of patient-centric research approaches
8. Conduct real-world evidence studies and outcome-based research
9. Design and manage clinical trials with a focus on safety and efficacy
10. Integrate precision medicine and biomarker-driven research
11. Analyze big data and electronic health records for research insights
12. Develop scientific writing, grant proposals, and publication strategies
13. Build leadership and collaboration skills for multidisciplinary research projects

Target Audience

1. Clinical researchers
2. Healthcare professionals
3. Biomedical scientists
4. Public health specialists
5. Academic faculty and postgraduate students
6. Biostatisticians and data analysts
7. Pharmaceutical and biotech professionals
8. Research coordinators and project managers

Course Modules

Module 1: Introduction to Medical Research

- Fundamentals of medical research and evidence-based practice
- Types of research
- Introduction to research ethics and regulatory frameworks
- Overview of clinical trial phases and protocols
- **Case Study:** COVID-19 vaccine trials and regulatory approvals

Module 2: Research Methodology & Study Design

- Designing robust observational and interventional studies
- Sampling methods, bias reduction, and validity
- Quantitative vs. qualitative research approaches
- Introduction to hypothesis formulation and testing
- **Case Study:** Comparative effectiveness study in diabetes management

Module 3: Biostatistics & Data Analysis

- Descriptive and inferential statistics
- Introduction to statistical software
- Sample size calculation and power analysis
- Interpretation of p-values and confidence intervals
- **Case Study:** Survival analysis in oncology trials

Module 4: Ethical Considerations & Regulatory Compliance

- Informed consent and patient rights
- Good Clinical Practice (GCP) guidelines
- Ethical review board submissions and audits
- Handling adverse events and data confidentiality
- **Case Study:** Ethical dilemmas in stem cell research

Module 5: Systematic Reviews & Meta-analysis

- Literature search strategies and database navigation
- Data extraction and quality assessment
- Statistical pooling techniques
- Reporting standards (PRISMA)
- **Case Study:** Meta-analysis of hypertension treatments

Module 6: Clinical Trials Management

- Trial protocol development and project planning
- Recruitment, randomization, and monitoring
- Risk management and quality assurance
- Regulatory submission and approval processes
- **Case Study:** Phase III oncology drug trial management

Module 7: Emerging Technologies in Medical Research

- AI and machine learning in diagnostics
- Big data analytics in healthcare
- Precision medicine and genomics
- Telemedicine and digital health integration
- **Case Study:** AI-assisted radiology diagnostics

Module 8: Scientific Communication & Publication

- Writing research proposals, manuscripts, and abstracts
- Peer-review and journal selection strategies
- Grant writing and funding acquisition
- Presenting research findings effectively
- **Case Study:** Successful publication of multi-center trial results

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.

- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.com or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

- The participant must be conversant with English.
- Upon completion of training the participant will be issued with an Authorized Training Certificate
- Course duration is flexible and the contents can be modified to fit any number of days.
- The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.
- One-year post-training support Consultation and Coaching provided after the course.
- Payment should be done at least a week before commence of the training, to FINESKILL TRAINING CENTER account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
07 Sep 2026	11 Sep 2026	Online	\$1,100
14 Sep 2026	18 Sep 2026	Online	\$1,100
21 Sep 2026	25 Sep 2026	Online	\$1,100
28 Sep 2026	02 Oct 2026	Online	\$1,100

Start Date	End Date	Location	Price
05 Oct 2026	09 Oct 2026	Online	\$1,100
12 Oct 2026	16 Oct 2026	Online	\$1,100
19 Oct 2026	23 Oct 2026	Online	\$1,100
26 Oct 2026	30 Oct 2026	Online	\$1,100

Ready to enroll or request a customized program? Book online or contact us:

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