Mobile Health (mHealth) Training Course

Professional Development Training Course Outline

Category	Public Health	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Mobile Health (mHealth) is revolutionizing global healthcare delivery by integrating digital health technologies, AI-powered healthcare solutions, telemedicine platforms, wearable devices, and mobile applications into patient care systems. Mobile Health (mHealth) Training Course is designed to equip healthcare professionals, IT specialists, public health practitioners, and development partners with advanced competencies in digital health transformation, remote patient monitoring, health data analytics, and mobile-based healthcare service delivery. With the rapid growth of 5G connectivity, IoT-enabled medical devices, cloud-based EHR systems, and AI-driven diagnostics, mHealth is becoming a cornerstone of modern healthcare ecosystems, especially in resource-limited and rural settings.

This course emphasizes practical application of scalable mHealth solutions, interoperable health systems, digital epidemiology, and patient-centered care models. Participants will gain hands-on knowledge in designing, implementing, and evaluating mobile health interventions that improve healthcare accessibility, efficiency, and quality. By leveraging big data analytics, blockchain in health records, mobile apps for disease surveillance, and telehealth innovations, learners will be prepared to drive digital transformation in healthcare systems globally while addressing pressing challenges such as universal health coverage, real-time disease tracking, and health equity.

Programme Curriculum

Mobile Health (mHealth) Training Course

Introduction

Mobile Health (mHealth) is revolutionizing global healthcare delivery by integrating digital health technologies, AI-powered healthcare solutions, telemedicine platforms, wearable devices, and mobile applications into patient care systems. Mobile Health (mHealth) Training Course is designed to equip healthcare professionals, IT specialists, public health practitioners, and development partners with advanced competencies in digital health

transformation, remote patient monitoring, health data analytics, and mobile-based healthcare service delivery. With the rapid growth of 5G connectivity, IoT-enabled medical devices, cloud-based EHR systems, and AI-driven diagnostics, mHealth is becoming a cornerstone of modern healthcare ecosystems, especially in resource-limited and rural settings.

This course emphasizes practical application of scalable mHealth solutions, interoperable health systems, digital epidemiology, and patient-centered care models. Participants will gain hands-on knowledge in designing, implementing, and evaluating mobile health interventions that improve healthcare accessibility, efficiency, and quality. By leveraging big data analytics, blockchain in health records, mobile apps for disease surveillance, and telehealth innovations, learners will be prepared to drive digital transformation in healthcare systems globally while addressing pressing challenges such as universal health coverage, real-time disease tracking, and health equity.

Course Duration

5 days

Course Objectives

1. Understand foundations of Mobile Health (mHealth) ecosystems
2. Apply digital health innovation strategies in healthcare delivery
3. Design mobile-based health applications (mHealth apps)
4. Implement telemedicine and telehealth platforms
5. Utilize AI in healthcare diagnostics and decision support
6. Integrate wearable health technology and IoT devices
7. Develop skills in health data analytics and visualization
8. Strengthen remote patient monitoring systems
9. Apply cloud computing in healthcare infrastructure
10. Enhance digital disease surveillance and outbreak tracking
11. Promote patient-centered digital care models
12. Ensure data privacy, cybersecurity, and health informatics compliance
13. Support health system digital transformation and interoperability

Target Audience

1. Healthcare professionals (doctors, nurses, clinicians)
2. Public health officers and epidemiologists
3. Health IT specialists and software developers
4. NGO and humanitarian health workers
5. Government health policymakers
6. Medical students and researchers
7. Digital health entrepreneurs and startups
8. Data scientists in healthcare analytics

Course Modules

Module 1: Introduction to mHealth and Digital Health Systems

- Overview of mobile health ecosystems
- Evolution of digital healthcare transformation
- Role of telemedicine and telehealth platforms

- Integration of mobile apps in healthcare delivery
- Case Study: Rwanda’s national mHealth strategy for rural healthcare access

Module 2: mHealth Application Development

- Designing user-friendly health mobile applications
- UX/UI principles in health tech design
- Cross-platform development tools (Android/iOS)
- API integration with health information systems
- Case Study: India’s Aarogya Setu COVID-19 tracking app

Module 3: Telemedicine and Remote Care

- Virtual consultation systems and workflows
- Real-time video diagnosis platforms
- Remote prescription and e-pharmacy integration
- Rural telehealth deployment models
- **Case Study:** U.S. Veterans Health Administration telehealth program

Module 4: AI and Machine Learning in mHealth

- AI-driven diagnostics and predictive analytics
- Chatbots for patient engagement
- Machine learning for disease prediction
- Clinical decision support systems
- **Case Study:** Google DeepMind AI for retinal disease detection

Module 5: Wearable Devices and IoT in Healthcare

- Smartwatches and biosensors in health monitoring
- IoT-enabled chronic disease tracking
- Real-time physiological data collection
- Integration with mobile health platforms
- **Case Study:** Apple Watch ECG monitoring for heart disease detection

Module 6: Health Data Analytics and Big Data

- Health data collection and management
- Predictive analytics in public health
- Visualization dashboards for decision-making
- Interoperability of health datasets
- **Case Study:** CDC COVID-19 data analytics system

Module 7: Digital Health Security and Ethics

- Data privacy laws (GDPR, HIPAA principles)
- Cybersecurity in health systems
- Ethical use of patient data
- Blockchain in healthcare records
- **Case Study:** Estonia’s blockchain-based e-health records system

Module 8: Implementation of mHealth in Health Systems

- Scaling mHealth solutions in low-resource settings
- Policy frameworks for digital health adoption
- Monitoring and evaluation of mHealth programs
- Public-private partnerships in digital health
- **Case Study:** Kenya's M-TIBA mobile health wallet system

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.org 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

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. 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

23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com