

Public Health Innovation 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

Public Health Innovation is rapidly transforming how health systems respond to emerging global challenges such as pandemics, climate-related health risks, and widening health inequities. This training course equips participants with cutting-edge skills in digital health transformation, AI-driven epidemiology, data-informed decision-making, and community-centered innovation. It bridges traditional public health approaches with modern technologies such as machine learning, mobile health (mHealth), telemedicine, and predictive analytics, enabling participants to design scalable and sustainable health solutions.

Public Health Innovation Training Course emphasizes health systems strengthening, Universal Health Coverage (UHC), One Health integration, and Sustainable Development Goals (SDGs 3) while fostering innovation in surveillance systems, behavioral change communication, and health informatics. Participants will engage with real-world case studies from global health emergencies, vaccination campaigns, and digital disease surveillance systems. The training is designed to empower public health professionals, policymakers, researchers, and innovators to build resilient, equitable, and data-driven health systems for the future.

Programme Curriculum

Public Health Innovation Training Course

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5 days

Course Objectives

1. Apply digital health innovation strategies in public health systems
2. Utilize AI and machine learning in disease surveillance
3. Strengthen pandemic preparedness and response systems
4. Design data-driven health interventions using real-time analytics
5. Promote health equity and social determinants of health frameworks
6. Integrate One Health approaches for zoonotic disease control
7. Develop mHealth and telemedicine solutions for rural health access
8. Enhance public health informatics and data visualization skills
9. Apply predictive analytics for outbreak forecasting
10. Strengthen community-based participatory health innovation models
11. Improve climate change and health adaptation strategies
12. Build capacity in digital epidemiology and GIS mapping
13. Foster innovation ecosystems in global health systems

Target Audience

1. Public health officers and epidemiologists
2. Healthcare policymakers and government officials
3. NGO and humanitarian health workers
4. Medical doctors and clinical researchers
5. Health data analysts and biostatisticians
6. Digital health entrepreneurs and innovators
7. University lecturers and students in public health
8. International development and donor agency staff

Course Modules

Module 1: Foundations of Public Health Innovation

- Evolution of public health innovation frameworks
- Key drivers: AI, digital transformation, SDGs
- Innovation ecosystems in health systems
- Policy integration for scalable solutions
- Case Study: COVID-19 global innovation response models

Module 2: Digital Health and mHealth Systems

- Mobile health applications in rural healthcare
- Telemedicine infrastructure and deployment

- Digital patient monitoring systems
- Interoperability in health information systems
- Case Study: India's eSanjeevani telemedicine platform

Module 3: AI and Machine Learning in Epidemiology

- Predictive modeling for disease outbreaks
- AI-powered surveillance systems
- Natural language processing for health data
- Machine learning in diagnostics support
- Case Study: AI-based COVID-19 forecasting models (WHO-supported systems)

Module 4: Health Data Analytics and Visualization

- Big data in public health decision-making
- Real-time dashboards and GIS mapping
- Data quality and governance frameworks
- Statistical tools for outbreak analysis
- Case Study: Johns Hopkins COVID-19 dashboard system

Module 5: One Health and Emerging Infectious Diseases

- Human-animal-environment health linkage
- Zoonotic disease prevention strategies
- Climate-sensitive disease modeling
- Integrated surveillance systems
- Case Study: Ebola outbreak containment strategies in West Africa

Module 6: Community-Based Health Innovation

- Participatory health design approaches
- Behavioral change communication models
- Grassroots innovation in health delivery
- Community health worker digital tools
- Case Study: Rwanda community health digitization program

Module 7: Health Systems Strengthening & UHC

- Financing universal health coverage models
- Health workforce innovation strategies
- Supply chain digitization in health systems
- Governance and policy innovation
- Case Study: Thailand Universal Health Coverage reform

Module 8: Climate Change, Resilience & Health Security

- Climate-sensitive disease preparedness
- Disaster risk reduction in health systems
- Emergency response innovation frameworks
- Environmental health surveillance systems
- Case Study: Cyclone response and health system resilience in Bangladesh

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

- 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
07 Sep 2026	11 Sep 2026	Online	\$1,500
14 Sep 2026	18 Sep 2026	Online	\$1,500
21 Sep 2026	25 Sep 2026	Online	\$1,500

Start Date	End Date	Location	Price
28 Sep 2026	02 Oct 2026	Online	\$1,500
05 Oct 2026	09 Oct 2026	Online	\$1,500
12 Oct 2026	16 Oct 2026	Online	\$1,500
19 Oct 2026	23 Oct 2026	Online	\$1,500
26 Oct 2026	30 Oct 2026	Online	\$1,500

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