Population Health Management 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

Population Health Management (PHM) is a transformative healthcare approach that focuses on improving the health outcomes of defined groups through data-driven strategies, preventive care, care coordination, and value-based healthcare delivery. In today's evolving digital health ecosystem, PHM integrates health analytics, electronic health records (EHRs), predictive modeling, telehealth, and AI-driven insights to identify high-risk populations and reduce healthcare costs while improving quality of care. Organizations are increasingly adopting PHM frameworks to support value-based care (VBC), chronic disease management, preventive healthcare, and patient-centered care models.

Population Health Management Training Course is designed to equip healthcare professionals with cutting-edge skills in health informatics, data analytics, risk stratification, healthcare interoperability, care coordination, and community health optimization. Participants will learn how to leverage modern technologies such as big data in healthcare, machine learning for patient risk prediction, and digital health platforms to enhance population outcomes. The course emphasizes real-world application through case studies, hands-on simulations, and evidence-based best practices aligned with global healthcare transformation trends.

Programme Curriculum

Population Health Management Training Course

Introduction

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Course Duration

5 days

Course Objectives

1. Understand fundamentals of Population Health Management (PHM) systems
2. Apply data-driven healthcare analytics for population risk identification
3. Implement value-based care (VBC) models in healthcare delivery
4. Use predictive analytics in healthcare decision-making
5. Strengthen chronic disease management strategies
6. Develop care coordination and integrated care pathways
7. Leverage electronic health records (EHR) interoperability
8. Apply AI in healthcare population risk stratification
9. Design preventive healthcare and wellness programs
10. Improve health equity and social determinants of health (SDOH) integration
11. Optimize healthcare cost reduction strategies
12. Enhance telehealth and remote patient monitoring systems
13. Build capacity in public health informatics and digital health transformation

Target Audience

1. Healthcare administrators and hospital managers
2. Public health professionals and epidemiologists
3. Doctors, clinicians, and nurses
4. Health data analysts and informaticians
5. Insurance and managed care professionals
6. Government health policymakers
7. NGO and community health workers
8. Health IT and digital health solution providers

Course Modules

Module 1: Introduction to Population Health Management

- Concepts of PHM and healthcare transformation
- Evolution from reactive to preventive healthcare
- Core PHM frameworks and models
- Role of digital health ecosystems
- Introduction to value-based care systems

- **Case Study:** Implementation of PHM in reducing hospital readmissions in a U.S. integrated healthcare system

Module 2: Healthcare Data Analytics & Big Data

- Healthcare data sources and integration
- Big data analytics in population health
- Data warehousing and interoperability
- Predictive modeling techniques
- Data visualization dashboards
- **Case Study:** Using big data analytics to predict diabetes risk in urban populations

Module 3: Risk Stratification & Predictive Modeling

- Patient segmentation techniques
- Risk scoring algorithms
- Machine learning in healthcare prediction
- High-risk population identification
- Clinical decision support systems
- **Case Study:** Predicting cardiovascular disease risk using AI-based models

Module 4: Chronic Disease Management Programs

- Designing chronic care models
- Diabetes, hypertension, and asthma management
- Patient engagement strategies
- Remote monitoring systems
- Medication adherence tracking
- **Case Study:** Reducing complications in diabetic patients through remote monitoring programs

Module 5: Care Coordination & Integrated Delivery Systems

- Multidisciplinary care teams
- Care pathways and referral systems
- Transitional care management
- Communication frameworks in healthcare
- Patient-centered coordination models
- **Case Study:** Integrated care coordination reducing ER visits in elderly patients

Module 6: Social Determinants of Health (SDOH)

- Understanding social health drivers
- Economic, environmental, and behavioral factors
- Health equity frameworks
- Community-based interventions
- Policy impact on population health
- **Case Study:** Improving maternal health outcomes through SDOH interventions in rural communities

Module 7: Digital Health & Telemedicine

- Telehealth systems and platforms
- Remote patient monitoring technologies

- Mobile health (mHealth) applications
- AI chatbots in patient engagement
- Digital transformation in healthcare delivery
- **Case Study:** Telemedicine reducing rural healthcare access gaps during pandemics

Module 8: Healthcare Quality Improvement & Cost Optimization

- Quality metrics in population health
- Healthcare cost reduction strategies
- Performance measurement systems
- Patient satisfaction analytics
- Continuous quality improvement cycles
- **Case Study:** Reducing hospital operational costs through population health optimization strategies

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

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