Planetary Health: Climate & Disease Training Course

Professional Development Training Course Outline

Category	Demography and Population Studies	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Planetary health is an emerging interdisciplinary field that addresses the interconnections between human health and the health of natural systems. Climate change, environmental degradation, and global disease patterns are increasingly linked, presenting urgent challenges for public health professionals, policymakers, and environmental scientists. Planetary Health: Climate & Disease Training Course provides participants with a comprehensive understanding of how climate change exacerbates infectious and non-communicable diseases, while equipping them with practical tools to develop climate-resilient health strategies. By integrating evidence-based research, data analytics, and predictive modeling, learners will gain insights into both mitigation and adaptation strategies that safeguard human health and ecosystem integrity.

The course emphasizes actionable learning through real-world case studies, interactive exercises, and scenario-based simulations. Participants will explore how planetary health frameworks influence disease surveillance, health system preparedness, and community-level interventions. By the end of the training, learners will possess the knowledge, analytical skills, and strategic approaches necessary to address the health impacts of climate change at local, national, and global scales. This course is designed for professionals across healthcare, environmental science, policy, and research sectors seeking to enhance resilience and promote sustainable health outcomes in the context of a rapidly changing climate.

Programme Curriculum

Planetary Health: Climate & Disease Training Course

Introduction

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Course Objectives

1. Understand the core principles of planetary health and their implications for public health.
2. Analyze the links between climate change and infectious disease emergence.
3. Evaluate the impact of environmental degradation on chronic disease prevalence.
4. Apply predictive modeling techniques to assess climate-related health risks.
5. Develop strategies for climate-resilient healthcare systems.
6. Design evidence-based public health interventions addressing climate and disease.
7. Examine the role of policy and governance in planetary health initiatives.
8. Integrate community engagement approaches to enhance health resilience.
9. Utilize geospatial analysis and climate data in health planning.
10. Explore emerging technologies for disease surveillance in changing climates.
11. Identify global case studies illustrating effective planetary health solutions.
12. Foster interdisciplinary collaboration for sustainable health outcomes.
13. Promote ethical considerations and equity in planetary health interventions.

Organizational Benefits

- Improved organizational capacity to respond to climate-related health challenges.
- Enhanced decision-making through evidence-based strategies.
- Strengthened public health resilience and preparedness.
- Increased awareness of global disease trends and environmental risks.
- Improved community engagement and stakeholder collaboration.

- Enhanced reputation as a leader in climate and health initiatives.
- Greater ability to influence policy and advocate for sustainable practices.
- Access to cutting-edge research and analytic tools.
- Development of a skilled workforce capable of addressing complex health threats.
- Integration of planetary health principles into strategic planning.

Target Audiences

- Public health professionals
- Environmental scientists
- Epidemiologists and disease control specialists
- Healthcare administrators and policy makers
- Climate change researchers
- NGO and international development practitioners
- Data analysts and GIS specialists
- Academic researchers and students in health and environmental sciences

Course Duration: 5 days

Course Modules

Module 1: Introduction to Planetary Health

- Overview of planetary health principles
- Climate change and global health interconnections
- Human-environment interactions
- Case study: Climate-related health crises
- Policy frameworks supporting planetary health
- Group discussion and Q&A

Module 2: Climate Change and Infectious Diseases

- Vector-borne disease patterns and climate impact
- Epidemic prediction models
- Disease surveillance in climate-sensitive regions
- Risk assessment methodologies
- Case study: Dengue fever outbreak analysis

- Practical exercise: Climate-disease mapping

Module 3: Environmental Degradation and Chronic Diseases

- Air pollution and respiratory health
- Water contamination and gastrointestinal diseases
- Urbanization and non-communicable disease trends
- Health equity considerations
- Case study: Air pollution in megacities
- Group activity: Developing mitigation strategies

Module 4: Predictive Modeling and Data Analytics

- Introduction to climate-health models
- Statistical and geospatial tools
- Data collection and interpretation
- Scenario-based predictive exercises
- Case study: Malaria transmission modeling
- Hands-on data analysis session

Module 5: Health System Preparedness

- Building climate-resilient health systems
- Emergency response planning
- Resource allocation and prioritization
- Training and capacity building
- Case study: Hospital preparedness for extreme weather events
- Simulation exercise: Disaster response planning

Module 6: Policy, Governance, and Advocacy

- National and global policy frameworks
- Governance challenges in planetary health
- Advocacy strategies for climate and health initiatives
- Ethical and equity considerations
- Case study: WHO climate-health policy implementation
- Group debate: Policy prioritization

Module 7: Community Engagement and Public Health Interventions

- Community-based health initiatives
- Behavioral change communication strategies
- Participatory approaches in public health
- Monitoring and evaluation of interventions
- Case study: Community-led malaria control program
- Workshop: Designing a local intervention

Module 8: Emerging Technologies and Future Directions

- Remote sensing and GIS in health planning
- AI and machine learning for disease prediction
- Mobile health applications for climate-related monitoring
- Innovations in environmental health research
- Case study: AI-driven early warning systems for epidemics
- Interactive session: Technology integration planning

Training Methodology

- Lectures with interactive Q&A sessions
- Case studies for practical application
- Group discussions and collaborative exercises
- Scenario-based simulations and role plays
- Hands-on workshops and data analysis
- Expert guest lectures and panel discussions

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
21 Sep 2026	25 Sep 2026	Online	$1,000
21 Sep 2026	25 Sep 2026	Physical	$1,500
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0
21 Sep 2026	25 Sep 2026	Physical	$0

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