Climate Change and Public Health Training Course

Professional Development Training Course Outline

Category	Environmental Management and Conservation	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Climate Change and Public Health Training Course addresses the critical intersection of **climate change** and **public health**, a growing global concern. The program is designed to equip a diverse range of professionals with the **knowledge, skills, and tools** needed to understand, assess, and mitigate the health impacts of a changing climate. It offers a comprehensive and **practical framework** for integrating climate resilience and adaptation strategies into health systems and community-based programs.

By focusing on the **vulnerabilities** and **health impacts** of climate-related events, this course empowers participants to develop and implement effective **public health interventions**. It emphasizes the importance of **interdisciplinary collaboration**, **data-driven decision-making**, and **sustainable solutions** to build **climate-resilient communities**. The curriculum explores both the direct and indirect health effects, from **extreme weather** and **infectious disease outbreaks** to **mental health** and **food security**, ensuring a holistic approach to a complex and urgent issue.

Programme Curriculum

Climate Change and Public Health Training Course

Introduction

Climate Change and Public Health Training Course addresses the critical intersection of **climate change** and **public health**, a growing global concern. The program is designed to equip a diverse range of professionals with the **knowledge, skills, and tools** needed to understand, assess, and mitigate the health impacts of a changing climate. It offers a comprehensive and **practical framework** for integrating climate resilience and adaptation strategies into health systems and community-based programs.

By focusing on the **vulnerabilities** and **health impacts** of climate-related events, this course empowers participants to develop and implement effective **public health interventions**. It emphasizes the importance of **interdisciplinary collaboration**, **data-driven decision-making**, and **sustainable solutions** to build **climate-resilient communities**. The curriculum explores both the direct and indirect health effects, from **extreme weather** and **infectious disease outbreaks** to **mental health** and **food security**, ensuring a holistic approach to a complex and urgent issue.

Course Duration

5 days

Course Objectives

1. Analyze the interconnectedness of climate science and population health.
2. Assess vulnerability to climate-sensitive diseases and environmental health risks.
3. Identify and quantify the health impacts of extreme weather events.
4. Develop and implement climate change adaptation strategies for health systems.
5. Design public health surveillance and early warning systems for climate-related threats.
6. Evaluate the health co-benefits of climate mitigation policies.
7. Apply a health equity lens to climate action planning.
8. Understand the role of governance and policy in addressing climate and health challenges.
9. Communicate effectively about climate risks and health solutions to diverse audiences.
10. Utilize data and technology for environmental monitoring and risk mapping.
11. Strengthen community resilience through preparedness and response planning.
12. Promote sustainable healthcare practices to reduce the sector?ÇÖs carbon footprint.
13. Engage in cross-sectoral partnerships for a holistic approach to planetary health.

Organizational Benefits

- Develop a highly skilled workforce capable of addressing the complex challenges of climate change and health, positioning the organization as a leader in **environmental, social, and governance (ESG)** initiatives.
- Foster a proactive culture of preparedness, enabling the organization to anticipate, respond to, and recover from climate-related disasters and health crises more effectively.
- Implement **sustainable practices** and **green infrastructure** within health facilities, leading to reduced operational costs and a lower **carbon footprint**.
- Demonstrate a commitment to **corporate social responsibility** and public well-being, enhancing brand reputation and building trust with clients, partners, and the community.
- Equip teams with the analytical skills to use **climate data** for **risk assessment** and **strategic planning**, leading to more informed and impactful programs.

Target Audience

- Public Health Professionals.
- Healthcare Providers.
- Emergency & Disaster Management Staff.
- Government & Policy Makers.
- NGO & International Development Staff.
- Environmental Scientists.
- Urban Planners & Architects.
- Academics & Researchers.

Course Modules

Module 1: Foundations of Climate Change & Public Health

- Core Concepts: An introduction to climate science, the greenhouse effect, and global warming.
- Pathways of Impact.
- Vulnerable Populations.
- Case Study: The 2003 European Heatwave and its health consequences. Analyze the public health response and lessons learned, including a focus on heat-related morbidity and mortality.
- Key Trends: Rising global temperatures and their link to heat-related illnesses and deaths.

Module 2: Direct Health Impacts of Climate Extremes

- Extreme Heat.
- Air Pollution & Wildfires.
- Floods & Storms.
- Case Study: The health aftermath of Hurricane Katrina in New Orleans. Investigate the breakdown of health infrastructure and the long-term mental health impacts on the community.
- Key Trends: Increasing frequency and intensity of extreme weather events and their role in disaster epidemiology.

Module 3: Indirect Impacts on Food, Water & Infectious Diseases

- Food Security & Nutrition.
- Waterborne Diseases.
- Vector-borne Diseases.
- Case Study: Dengue fever outbreaks in Southeast Asia. Investigate how rising temperatures and increased rainfall patterns are expanding the geographic range of the *Aedes* mosquito.
- Key Trends: Shifting disease patterns and the emergence of new climate-sensitive diseases.

Module 4: Mental Health & Climate-Induced Displacement

- Psychological Toll.
- Forced Migration.
- Community Support.
- Case Study: The mental health crisis following the Australian bushfires. Examine the long-term psychological effects on fire-affected communities and first responders.
- Key Trends: The growing recognition of climate-related mental health challenges as a core public health issue.

Module 5: Climate-Resilient Health Systems

- Infrastructure & Preparedness.
- Green Healthcare.
- Early Warning Systems.
- Case Study: Hospitals in Bangladesh building resilience to cyclones and floods. Highlight successful strategies for protecting medical facilities and ensuring continuity of care during and after extreme weather events.
- Key Trends: The transition to sustainable healthcare and the integration of climate risk into health sector planning.

Module 6: Policy, Governance & Communication

- Policy Frameworks
- Intersectoral Collaboration.
- Public Communication.
- Case Study: London's air quality policies and their health co-benefits. Analyze how urban policies to reduce vehicle emissions led to improved respiratory health.
- Key Trends: Growing demand for policymakers to integrate health metrics into climate policy.

Module 7: Data, Technology & Surveillance

- Data Analytics.
- Geographic Information Systems (GIS)
- Mobile & Digital Health.
- Case Study: Using satellite data and GIS to predict and prevent malaria outbreaks in Africa. Showcase how advanced data tools can provide early warnings based on environmental changes.
- Key Trends: The rise of digital epidemiology and its application to climate-sensitive health issues.

Module 8: Community Engagement & Action

- Building Resilience.
- Environmental Justice.
- Advocacy & Leadership.
- Case Study: Community-led relocation projects in Alaska. Explore how indigenous communities are adapting to permafrost thaw and rising sea levels, highlighting local knowledge and resilience.
- Key Trends: A shift toward community-led, bottom-up solutions and a focus on environmental justice.

Training Methodology

This course uses a **blended learning approach** incorporating lectures, interactive discussions, and hands-on exercises. The methodology is designed to be **practical and engaging**, with a strong emphasis on real-world application.

1. Expert-Led Webinars.
2. Interactive Workshops.
3. Data & Tool Demos.
4. Peer-to-Peer Learning.
5. Practical Assignments.

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