

Course No. 1642

Climate Change & Its Impact on Public Health Training Course

**PUBLIC HEALTH, ENVIRONMENT & SUSTAINABILITY MANAGEMENT
GOVERNMENT & PUBLIC SECTOR**

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Climate Change & Its Impact on Public Health Training Course is a professional and practical program designed to develop a clear understanding of the relationship between climate change, environmental conditions, and public health. The course provides participants with structured approaches for identifying, assessing, and managing climate-related health risks affecting employees, communities, infrastructure, and organizational operations.

Climate change is increasingly associated with changing patterns of extreme heat, flooding, drought, storms, air pollution, water stress, and other environmental pressures that can influence public health. This course examines both direct and indirect health impacts, including heat-related illness, air-quality-related health risks, water- and food-related health concerns, infectious diseases, and health consequences associated with climate-related emergencies.

The course is particularly relevant to the Oil & Gas sector, where changing climatic conditions can influence workforce health, remote and offshore operations, industrial facilities, emergency response, water availability, environmental performance, and business continuity. Participants will explore practical approaches for integrating climate-related health considerations into HSE management, occupational health, environmental risk assessment, emergency preparedness, sustainability, and operational resilience.

The program moves beyond climate awareness by focusing on practical risk management and adaptation. Participants will learn how to assess climate-related vulnerabilities, identify high-risk groups, establish monitoring indicators, develop adaptation measures, strengthen emergency preparedness, and communicate health risks effectively. Practical exercises and Oil & Gas-focused scenarios will enable participants to translate climate and public health information into actionable organizational strategies.

Objectives

- Analyze the relationship between climate change, environmental conditions, and public health risks within the context of organizational and community operations.
- Assess the direct and indirect health impacts of extreme heat, flooding, drought, storms, air pollution, and changing environmental conditions.

- Identify vulnerable populations, occupational groups, communities, and geographical areas exposed to higher climate-related health risks.
- Evaluate climate-sensitive health hazards using structured environmental and public health risk assessment methodologies.
- Apply practical approaches for assessing heat-related health risks and developing appropriate preventive and protective measures.
- Analyze the impacts of climate change on air quality, water availability, food safety, infectious diseases, and community health.
- Develop climate adaptation measures that strengthen public health preparedness and organizational resilience.
- Design practical monitoring indicators for tracking climate-related health, environmental, and operational risks.
- Strengthen emergency preparedness and response capabilities for climate-related public health events and environmental emergencies.
- Evaluate the implications of climate change for occupational health, field operations, offshore facilities, and workforce protection.
- Align climate adaptation, public health, environmental management, sustainability, HSE, and business continuity priorities.
- Develop a practical Climate Change & Public Health Action Plan based on identified risks, vulnerabilities, priorities, and organizational capabilities.

Who Should Attend

This course is designed for Public Health Managers, Environmental Health Professionals, Occupational Health Specialists, HSE Managers and Professionals, Environmental Managers, Sustainability Professionals, Environmental Risk Specialists, Industrial Hygienists, Emergency Response Coordinators, Disaster Management Professionals, and professionals responsible for environmental monitoring, workforce health, and climate-related risk management.

The program is particularly relevant to professionals working in the Oil & Gas and energy sectors, including Operations Managers, Facility Managers, Offshore Operations Professionals, HSE Managers, Occupational Health Teams, Environmental Engineers, Sustainability Managers, Risk Managers, Emergency Response Teams, Business Continuity Professionals, and technical specialists involved in workforce protection and environmental performance. It is also suitable for executives, department heads, government officials, regulators, and decision makers responsible for

public health, environmental protection, climate resilience, sustainability, and organizational risk.

Learning Outcomes

- Explain the key relationships between climate change, environmental conditions, and public health.
- Identify major climate-sensitive health risks affecting workers, communities, and organizations.
- Assess health risks associated with extreme heat and prolonged exposure to high temperatures.
- Evaluate the health implications of changing air quality, water availability, flooding, drought, and extreme weather.
- Analyze climate-related risks to occupational health and workforce performance in field and industrial environments.
- Identify vulnerable populations and determine appropriate risk reduction priorities.
- Conduct structured climate and public health vulnerability assessments.
- Develop practical climate adaptation and public health preparedness measures.
- Design monitoring frameworks for climate-sensitive health and environmental indicators.
- Evaluate organizational readiness for climate-related public health emergencies.
- Integrate climate risk considerations into HSE, occupational health, environmental management, emergency management, and business continuity planning.
- Develop a practical climate resilience and public health action plan for an Oil & Gas or industrial organization.

Course Outline

DAY 01

Climate Change, Environmental Health & Public Health Foundations

- Fundamentals of climate change and changing environmental conditions
- Climate drivers, variability, trends, and extreme weather events
- Direct and indirect pathways linking climate change to human health
- Climate-sensitive diseases and emerging public health risks
- Extreme heat, thermal stress, and heat-related illness

DAY 01 — CONTINUED

- Air quality, atmospheric pollution, and climate-related health concerns
- Vulnerability, exposure, sensitivity, and adaptive capacity
- Climate risks affecting communities, workers, infrastructure, and operations
- The role of public health and environmental health management in climate resilience

PRACTICAL APPLICATION

Develop a climate-related public health risk profile for a selected organization, facility, or community

DAY 02

Climate-Related Health Risk Assessment & Vulnerability Analysis

- Principles of climate and public health risk assessment
- Identification of climate hazards and health impact pathways
- Exposure assessment and vulnerability analysis
- Assessment of heat-related occupational and community health risks
- Flooding, storms, drought, and disaster-related health risks
- Water quality, water availability, and climate-sensitive health threats
- Food safety, nutrition, and climate-related health pressures
- Vector-borne and water-borne disease considerations
- Identification of vulnerable populations and high-risk occupational groups
- Climate-health risk prioritization and risk registers

PRACTICAL APPLICATION

Conduct a climate and public health vulnerability assessment and prioritize critical risks

DAY 03

Climate Change, Occupational Health & Oil and Gas Operations

- Climate change implications for occupational health and workforce protection
- Heat stress management in outdoor and industrial work environments
- Climate-related impacts on remote, offshore, and field operations
- Extreme weather risks affecting Oil & Gas personnel and facilities
- Air quality and worker exposure considerations
- Water availability, sanitation, and hygiene considerations in operational locations
- Climate risks affecting emergency medical response and occupational health services
- Managing heat exposure, fatigue, and changing environmental conditions
- Integrating climate considerations into HSE and occupational health risk assessments
- Climate resilience, operational continuity, and workforce protection

PRACTICAL APPLICATION

Assess climate-related occupational health risks at an Oil & Gas site and develop workforce protection measures

DAY 04

Climate Adaptation, Emergency Preparedness & Public Health Response

- Principles of climate adaptation and public health resilience
- Developing adaptation strategies based on climate risk and vulnerability
- Early warning systems and climate-sensitive health indicators
- Emergency preparedness for heatwaves, floods, storms, droughts, and environmental incidents
- Public health emergency response planning and coordination
- Integration of health, environmental, HSE, operations, and emergency response functions
- Climate-related business continuity and operational resilience
- Emergency communication and public health risk communication
- Community preparedness and stakeholder engagement

DAY 04 — CONTINUED

- Emergency response, recovery, and lessons learned

PRACTICAL APPLICATION

Simulate a climate-related public health emergency and develop an integrated preparedness, response, and recovery strategy

DAY 05

Climate Health Governance, Monitoring & Strategic Action Planning

- Governance of climate change and public health risks
- Integrating climate considerations into enterprise risk management
- Climate adaptation planning and strategic decision-making
- Development of climate and public health Key Performance Indicators
- Monitoring environmental and health data to identify emerging risks
- Climate and health risk reporting for executives and organizational leadership
- Integrating climate resilience with sustainability and environmental management
- Linking climate adaptation with HSE, occupational health, and business continuity
- Establishing organizational priorities for long-term climate resilience
- Continuous improvement and review of climate-health programs

FINAL WORKSHOP

Develop a comprehensive Climate Change & Public Health Action Plan covering climate risk identification, vulnerability assessment, workforce protection, environmental monitoring, emergency preparedness

FINAL WORKSHOP

Develop a comprehensive Climate Change & Public Health Action Plan covering climate risk identification, vulnerability assessment, workforce protection, environmental monitoring, emergency preparedness, adaptation measures, performance indicators, governance, and continuous improvement



Register or Request More Information

Course page: <https://quest-training.com/courses/climate-change-its-impact-on-public-health-training-course>

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