Climate Risk in Projects Planning Training Course

Professional Development Training Course Outline

Category	Project Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Climate risk has become a defining factor in modern project planning, influencing cost, schedules, safety, sustainability, and long-term resilience. Climate Risk in Projects Planning Training Course equips professionals with practical skills to identify, assess, and integrate climate-related risks into project planning and decision-making processes. The course focuses on climate change impacts, physical and transition risks, climate adaptation strategies, ESG integration, and risk-informed planning aligned with global frameworks and regulatory expectations.

Participants will gain hands-on experience using climate risk assessment tools, scenario analysis, vulnerability mapping, and resilience planning techniques. The training emphasizes proactive risk mitigation, climate-resilient infrastructure planning, sustainable project delivery, and compliance with international climate standards. Real-world case studies demonstrate how climate risks affect projects across sectors such as infrastructure, energy, agriculture, water, urban development, and finance.

Programme Curriculum

Climate Risk in Projects Planning Training Course

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Course Objectives

1. Understand climate risk concepts in project planning
2. Apply climate risk assessment methodologies
3. Integrate climate adaptation strategies into projects
4. Analyze physical and transition climate risks
5. Conduct climate vulnerability and exposure analysis
6. Implement climate-resilient project design principles
7. Use climate data for risk-informed planning
8. Align projects with ESG and sustainability standards
9. Incorporate climate scenarios into project decision-making
10. Improve climate governance in project management
11. Strengthen climate risk mitigation strategies
12. Enhance resilience across project life cycles
13. Support sustainable and low-carbon project outcomes

Organizational Benefits

- Strengthens climate-resilient project planning
- Reduces climate-related project delays and losses
- Enhances regulatory and ESG compliance
- Improves long-term project sustainability
- Supports data-driven climate decisions
- Builds institutional climate risk capacity
- Promotes proactive risk management culture
- Aligns projects with climate finance requirements
- Enhances stakeholder confidence
- Improves project investment readiness

Target Audiences

1. Project managers and planners
2. Infrastructure and construction professionals
3. Government and public sector officials
4. Environmental and sustainability officers
5. Development finance professionals
6. Climate change and ESG consultants
7. Urban planners and engineers
8. NGO and donor-funded project teams

Course Duration: 10 days

Course Modules

Module 1: Introduction to Climate Risk in Projects

- Climate change fundamentals and project relevance
- Types of climate risks affecting projects
- Climate risk terminology and frameworks
- Project life cycle and climate exposure
- Regulatory and policy context
- Case study on climate risk impacts on infrastructure projects

Module 2: Climate Risk Identification

- Physical climate risks and hazards
- Transition and policy-related risks
- Chronic versus acute climate risks
- Sector-specific climate vulnerabilities
- Stakeholder-driven risk identification
- Case study on climate risk mapping in urban projects

Module 3: Climate Risk Assessment Tools

- Qualitative and quantitative assessment methods
- Climate risk screening tools
- Risk matrices and scoring models
- Use of climate indices and indicators
- Data limitations and uncertainty handling
- Case study on climate risk scoring for development projects

Module 4: Climate Data and Scenario Analysis

- Climate data sources and projections
- Downscaling climate models for projects
- Scenario planning techniques
- Interpreting climate forecasts
- Managing uncertainty in projections
- Case study on scenario-based project planning

Module 5: Vulnerability and Exposure Analysis

- Assessing project exposure to climate hazards

- Social, environmental, and economic vulnerability
- Asset-level vulnerability assessment
- Geographic information systems for risk mapping
- Sensitivity analysis techniques
- Case study on vulnerability assessment for water projects

Module 6: Climate Risk Integration in Project Planning

- Mainstreaming climate risk into planning
- Climate-informed feasibility studies
- Risk-adjusted scheduling and budgeting
- Integrating climate risk into design decisions
- Cross-functional coordination strategies
- Case study on climate-informed infrastructure planning

Module 7: Climate Adaptation Strategies

- Structural and non-structural adaptation measures
- Nature-based solutions in projects
- Adaptive project design principles
- Cost-benefit analysis of adaptation options
- Prioritizing adaptation investments
- Case study on adaptation strategies in agriculture projects

Module 8: Climate Mitigation and Low-Carbon Planning

- Project-level mitigation opportunities
- Low-carbon materials and technologies
- Energy efficiency integration
- Emissions accounting for projects
- Alignment with net-zero goals
- Case study on low-carbon construction projects

Module 9: Climate Risk Governance

- Institutional frameworks for climate risk
- Roles and responsibilities in projects
- Climate risk policies and procedures
- Decision-making and accountability mechanisms
- Monitoring and reporting requirements
- Case study on governance failures and lessons learned

Module 10: ESG and Climate Risk Alignment

- ESG principles in project planning
- Climate risk disclosure standards
- Sustainable finance requirements
- Stakeholder expectations and transparency
- Aligning projects with ESG metrics
- Case study on ESG-compliant project planning

Module 11: Climate Risk Financing

- Climate finance mechanisms
- Risk transfer and insurance solutions
- Accessing climate funds
- Financial resilience planning
- Cost implications of climate risks
- Case study on climate finance-supported projects

Module 12: Monitoring and Evaluation of Climate Risk

- Climate risk indicators and KPIs
- Adaptive management approaches
- Monitoring climate impacts during implementation
- Reporting and learning systems
- Continuous improvement strategies
- Case study on climate risk monitoring frameworks

Module 13: Digital Tools for Climate Risk Planning

- Climate risk modeling software
- GIS and remote sensing applications
- Decision-support systems
- Data visualization techniques
- Digital dashboards for risk tracking
- Case study on digital climate risk tools in projects

Module 14: Stakeholder Engagement and Communication

- Communicating climate risks to stakeholders
- Participatory planning approaches
- Community-based adaptation planning

- Managing stakeholder expectations
- Conflict resolution in climate decisions
- Case study on stakeholder-driven resilience projects

Module 15: Building Climate-Resilient Projects

- Designing for long-term resilience
- Integrating lessons learned
- Scaling climate-resilient practices
- Organizational capacity building
- Future trends in climate risk planning
- Case study on end-to-end climate-resilient project delivery

Training Methodology

- Interactive expert-led sessions
- Practical climate risk assessment exercises
- Group discussions and peer learning
- Real-world project simulations
- Case study analysis and presentations
- Hands-on use of climate planning tools
- Knowledge checks and applied learning tasks

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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