

# Executive Certificate in Climate Risk Insurance

A CPD-Accredited Executive Programme



## Executive Summary

Climate change is fundamentally reshaping the risk landscape for insurers, governments, regulators, and financial institutions worldwide.

Increasingly frequent and severe climate hazards—including floods, droughts, cyclones, heat stress, and related systemic impacts—are placing unprecedented strain on traditional insurance models, public finances, and social protection systems. Expectations for timely payouts, transparency, and fiscal discipline have intensified.

Climate risk insurance has become a critical instrument for resilience, recovery, and risk financing.

Effective climate insurance cannot be developed through conventional insurance training alone. Institutions must translate climate science into insurable risk, manage uncertainty and data limitations, structure reinsurance and capital market support, and establish governance frameworks that sustain credibility and trust.

The Executive Certificate in Climate Risk Insurance addresses this capability gap. It is a globally benchmarked, executive-level programme designed for senior professionals in insurance, reinsurance, regulation, public policy, and climate finance.

An integrated, end-to-end understanding of climate risk insurance – from risk identification to long-term governance.

Participants progress through a coherent learning journey linking climate risk assessment, indemnity and parametric insurance design, pricing under uncertainty, reinsurance and capital markets, and institutional and regulatory considerations. Emphasis is placed on practical frameworks, professional judgement, and real-world trade-offs.

Developed in climate-exposed markets. Applicable globally.

Delivered in a flexible, executive-friendly online format, the programme equips professionals to strengthen institutional capability, inform policy and regulatory decision-making, and contribute to credible, affordable, and sustainable climate risk insurance solutions.

## Course Overview

The Executive Certificate in Climate Risk Insurance is a senior-level professional programme designed to build end-to-end capability in the design, financing, and governance of climate risk insurance solutions.

Climate risk insurance sits at the intersection of climate science, insurance practice, financial markets, public policy, and institutional governance.

The programme begins with a foundation in climate risk and insurability, examining how hazards translate into loss and how non-stationarity challenges traditional actuarial assumptions.

It then explores insurance solution design across indemnity and parametric approaches, focusing on product structure, triggers, payout design, and operational feasibility.

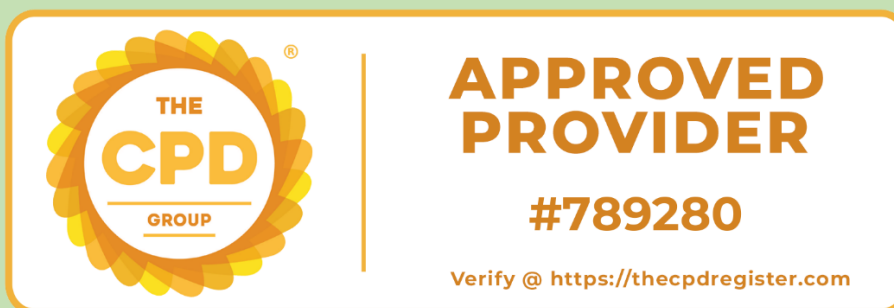
Pricing and financial sustainability are addressed under conditions of uncertainty, volatility, and limited data, including stress testing and scenario analysis.

A core executive component focuses on risk transfer, reinsurance, and capital markets, examining proportional and non-proportional structures, risk layering, and insurance-linked securities.

The programme concludes with governance, regulation, and institutional credibility, emphasising transparency, payout governance, and stakeholder trust.

Learning culminates in an applied capstone project focused on real-world climate insurance solutions.

## Accreditation and Professional Recognition



CPD-Accredited by The CPD Group (UK)  
Internationally recognised CPD points

The programme supports:

- Professional competence and capability development
- Organisational CPD and training requirements
- Regulatory and supervisory expectations
- Executive and policy-level decision-making under climate risk

This is a CPD-accredited executive programme, not an academic qualification.

## Course Objectives

Upon completion, participants will be able to:

- Understand climate risk from an insurance perspective
- Design and evaluate indemnity and parametric solutions
- Apply pricing under data constraints and non-stationarity
- Structure proportional and non-proportional reinsurance
- Evaluate the selective role of capital markets
- Balance protection, affordability, and sustainability
- Assess governance and regulatory frameworks
- Engage effectively with reinsurers, regulators, investors, and public authorities

## Programme Structure

A progressive learning journey comprising 12 integrated modules and an applied capstone project.

### Foundations: Translating Climate Risk into Insurance

*Modules 1–2*

- Climate hazards and insurance relevance
- Physical, transition, and systemic climate risks
- Risk layering and financial protection strategies
- Sovereign and meso-level risk financing

### Data, Modelling, and Risk Analytics

*Modules 3–4*

- Climate, weather, and exposure data
- Data quality and uncertainty management
- Catastrophe modelling and loss metrics
- Scenario analysis and stress testing

## Climate Insurance Product Design

*Modules 5–6*

- Parametric triggers and payout curves
- Basis risk identification and mitigation
- Indemnity and hybrid product design
- Layered solutions by context

## Pricing, Risk Transfer, and Financial Sustainability

*Modules 7–8*

- Pricing under volatility and uncertainty
- Capital and affordability considerations
- Proportional and non-proportional reinsurance
- Risk layering, capital markets, ILS

## Programme Design, Operations, and Governance

*Modules 9–11*

- Sovereign, meso, and micro programmes
- Distribution and operational systems
- Claims and parametric payout management
- Regulation and public–private partnerships

## Impact, Ethics, and Long-Term Sustainability

*Module 12*

- Value-for-money and impact measurement
- Ethics and consumer protection
- Resilience outcomes and sustainability

## Applied Capstone Project

An integrated, real-world climate risk insurance solution

Includes:

- Risk analysis
- Product and pricing design
- Reinsurance and financing
- Governance, payouts, and impact

## Programme Design Philosophy

- Risk → implementation
- Technical + financial + governance integration
- Professional judgement under uncertainty
- Global relevance, real-world complexity

## Suitability and Target Audience

Suitable for:

- Insurance and reinsurance professionals
- Regulators and supervisors
- Government and public-sector practitioners
- Development and climate finance professionals
- Consultants and advisors

Participants are expected to have prior professional experience.

## Online Delivery

Flexible • Executive-friendly • Globally accessible

- Online delivery
- Compatible with full-time professional roles
- Accessible across regions and time zones

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