Underwriting Climate Transition Risks and Green Technologies Training Course

Professional Development Training Course Outline

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

Course Introduction

As the global economy accelerates toward net-zero emissions, understanding how to underwrite climate transition risks and capitalize on green technologies has become vital for insurance professionals, financial analysts, and sustainability strategists. Training Course on Underwriting Climate Transition Risks & Green Technologies equips participants with deep knowledge of the financial, technological, and regulatory dimensions influencing climate-related underwriting decisions. It integrates environmental risk assessment, ESG integration, sustainable insurance practices, and the adoption of emerging green technologies.

With rising global investments in renewable energy, electric vehicles, and low-carbon infrastructure, insurers and financial institutions must develop strategies that align with sustainable finance frameworks and climate disclosure standards. This training program bridges the gap between climate science and underwriting practices by delivering practical insights, industry-relevant case studies, and a toolkit for evaluating the insurability of green innovations and transitional climate risk exposures.

Programme Curriculum

Underwriting Climate Transition Risks and Green Technologies Training Course

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Course Objectives

1. Understand the fundamentals of climate transition risk in underwriting practices.
2. Integrate ESG principles into underwriting and risk analysis.
3. Assess the impact of carbon pricing and decarbonization policies on insurance portfolios.
4. Identify insurability aspects of green technologies such as solar, wind, and EVs.
5. Evaluate climate stress testing models used in the financial sector.
6. Explore the role of sustainable insurance in building climate-resilient economies.
7. Examine regulatory expectations including TCFD and IFRS S2 compliance.
8. Apply scenario analysis for physical vs transition climate risks.
9. Explore green financing instruments and their insurance implications.
10. Understand climate disclosure mandates and their relevance to underwriters.
11. Gain insights into carbon offset projects and their risk profiles.
12. Analyze climate-aligned underwriting policies from leading insurers.
13. Develop strategic underwriting frameworks aligned with net-zero commitments.

Target Audiences

1. Underwriters (Commercial & Specialty)
2. ESG Risk Analysts
3. Insurance Product Developers
4. Sustainability Officers
5. Risk Managers in Banking & Insurance
6. Reinsurance Professionals
7. Climate Policy Advisors
8. Investment & Asset Managers

Course Duration: 10 days

Course Modules

Module 1: Introduction to Climate Transition Risks

- Definition and classification of climate risks
- Climate transition vs physical risks
- Key drivers of transition risks (policy, technology, market shifts)
- Role of insurance in transition risk management
- Alignment with global climate goals (Paris Agreement, Net Zero)
- **Case Study: Risk evaluation of coal divestment by a global reinsurer**

Module 2: ESG Integration in Underwriting

- ESG frameworks and insurance sector relevance
- Tools for ESG risk assessment in underwriting
- ESG scoring methodologies
- Underwriting exclusions and positive screening
- Regulatory ESG requirements (EU Taxonomy, SFDR)
- **Case Study: Integrating ESG scoring in property insurance underwriting**

Module 3: Carbon Pricing and Insurance Portfolios

- Understanding carbon pricing mechanisms
- Risk exposure in carbon-intensive sectors
- Insurance implications of carbon taxes and credits
- Pricing and premium strategies under carbon constraints
- Influence of national carbon policies on underwriting
- **Case Study: Carbon footprint impact on corporate liability coverage**

Module 4: Underwriting Green Technologies

- Insurance challenges of renewable energy projects
- Risks and coverage of EVs and battery technologies
- Green building technologies and insurability
- Reputational and liability risks in tech adoption
- Reinsurance and capital for green projects
- **Case Study: Insurability assessment for a wind farm in Asia**

Module 5: Climate Stress Testing and Scenario Analysis

- Purpose and structure of stress testing
- Key climate scenarios (NGFS, IEA, IPCC)
- Integration into underwriting strategies
- Tools and software for modeling climate risk
- Interpreting stress test results in insurance
- **Case Study: Stress testing an underwriting portfolio under IEA Net-Zero**

Module 6: Climate Disclosure and Regulatory Frameworks

- Overview of TCFD, ISSB, and IFRS S2 standards
- Climate risk disclosure best practices
- Regulatory reporting for insurers
- Governance and accountability in climate reporting
- Underwriting implications of disclosure gaps
- **Case Study: TCFD-aligned risk disclosure by a European insurer**

Module 7: Green Financing Instruments

- Understanding green bonds and sustainability-linked loans
- Role of insurers in financing the green economy
- Insurance for climate-resilient infrastructure
- Risk assessment in sustainable investment projects
- Legal and compliance aspects of green finance
- **Case Study: Underwriting risk analysis for a green bond-backed project**

Module 8: Climate-Aligned Underwriting Policies

- Developing underwriting policies aligned with sustainability
- Sectoral exclusions and transition pathways
- Industry benchmarks and science-based targets
- Stakeholder engagement in policy development
- Monitoring and reporting climate-aligned progress
- **Case Study: Zurich’s climate-aligned underwriting policy evaluation**

Module 9: Physical Risk vs Transition Risk

- Contrasting underwriting approaches

- Quantitative risk modeling for both types
- Loss prevention strategies for high-risk regions
- Reinsurance considerations
- Impact on premium pricing models
- **Case Study: Wildfire risk vs coal phaseout risk in property lines**

Module 10: Emerging Climate Technologies and Insurability

- AI, carbon capture, hydrogen, and biotech applications
- Risk unknowns and technological maturity
- IP, cyber, and operational risks
- Evaluation frameworks for insurability
- Early-stage technology risk mitigation
- **Case Study: Insurance decision for a carbon capture pilot project**

Module 11: Sustainable Claims Management

- Sustainable repair and rebuilding practices
- Green claims verification tools
- Carbon tracking in claims operations
- Role of technology in eco-friendly claims
- Policyholder engagement in sustainable recovery
- **Case Study: Climate-smart claims handling in post-hurricane Florida**

Module 12: Reinsurance & Capital Allocation in Green Markets

- Capital models and climate risk
- Role of reinsurance in scaling green coverage
- Solvency and climate stress buffers
- Capital flows to climate-aligned portfolios
- Catastrophe bonds and resilience finance
- **Case Study: Parametric reinsurance for renewable energy producers**

Module 13: Technology Platforms for Climate Underwriting

- Role of climate analytics platforms (Jupiter, Cervest)
- Geospatial data for underwriting
- Integration with legacy underwriting systems
- APIs and AI in predictive underwriting
- Vendor selection and evaluation
- **Case Study: Implementing a climate analytics platform for risk modeling**

Module 14: Client Engagement on Climate Issues

- Educating clients on transition risks
- Building trust through transparency
- Offering tailored climate-related coverage
- Strategies for SME climate resilience
- Climate risk as part of policy renewal dialogue
- **Case Study: Risk awareness program for SMEs in flood-prone areas**

Module 15: Strategic Planning for Climate Resilience

- Vision setting for climate-resilient underwriting
- Internal capacity building and talent development
- Collaboration with stakeholders and regulators

- Aligning business goals with UN SDGs
- Climate governance in insurance organizations
- **Case Study: A multinational insurer's climate resilience transformation plan**

Training Methodology

- Interactive expert-led live sessions
- Group discussions and real-world problem-solving
- Scenario-based simulation exercises
- Practical toolkits and templates
- Case study presentations and peer feedback
- Post-training assessments and certification

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

Start Date	End Date	Location	Price
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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