

CLIMATE CHANGE: ECONOMICS & GOVERNANCE



GENTEX[®]
TRAINING CENTER



Introduction

Climate Change: Economics & Governance Training Course prepares professionals to analyse climate change as an economic and governance problem and to act on it. Participants work through climate science essentials and physical and transition risk, the economics of carbon and the social cost of carbon, carbon pricing, emissions trading systems, and carbon markets, the international climate governance architecture including the Paris Agreement and NDCs, corporate climate governance, disclosure, and ESG reporting, and climate finance, adaptation, and just transition as one connected discipline. The programme links the emissions an economy produces with the pricing, governance, and finance that shape its response. As a result, learners gain a practical command of climate economics and governance. Furthermore, the course strengthens analytical judgement, policy literacy, and governance discipline.

Climate Change: Economics & Governance Course Objectives

- Explain climate science essentials and physical versus transition risk.
- Apply the economics of carbon and the social cost of carbon.
- Apply carbon pricing instruments: carbon tax and emissions trading.
- Apply emissions trading system design and carbon market mechanics.
- Apply GHG accounting standards and the GHG Protocol scopes.
- Apply the Paris Agreement, NDCs, and international climate governance.
- Apply TCFD and IFRS S2 climate disclosure recommendations.
- Apply corporate climate governance and board oversight duties.
- Apply climate finance, green bonds, and transition finance.
- Apply adaptation planning, just transition, and climate risk assessment.



Course Methodology

- Interactive sessions built on climate economics and governance cases.
- Workshops on carbon pricing, GHG accounting, and disclosure design.
- Group exercises on ETS design, climate scenarios, and adaptation planning.
- Hands-on practice with emissions inventories, scenario tools, and disclosure drafts.
- Simulation of a climate policy negotiation and a board climate review.
- Facilitator coaching and peer review on personal climate action plans.

Who Should Take This Course

- Climate, sustainability, and ESG professionals.
- Public policy analysts and regulators.
- Finance, investment, and risk professionals.
- Corporate governance and disclosure officers.
- Energy, environment, and HSE managers.
- Consultants advising on climate strategy and compliance.

Climate Change: Economics & Governance Course Outlines

Day 1: Climate Science and Risk Foundations

- Climate science essentials: drivers, feedbacks, and tipping points.
- Physical risk: acute hazards and chronic changes.
- Transition risk: policy, technology, market, and reputational.
- Emissions trajectories and global carbon budgets.

LEARN BOLD. LEAD BEYOND

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com



- Climate scenarios: IPCC SSPs and IEA pathways.
- Materiality of climate risk for institutions.
- Case discussion: a climate risk assessment that ignored transition risk.

Day 2: The Economics of Carbon

- Carbon as an externality and the social cost of carbon.
- Damage functions and integrated assessment models.
- Discounting, intergenerational equity, and cost-benefit analysis.
- Carbon pricing instruments: carbon tax versus emissions trading.
- Emissions trading system design: caps, allowances, and allocation.
- Carbon markets: compliance markets and voluntary markets.
- Workshop: comparing carbon pricing instruments for a jurisdiction.

Day 3: International and National Climate Governance

- The UNFCCC and the Paris Agreement architecture.
- Nationally Determined Contributions (NDCs) and ratchet mechanisms.
- Article 6, carbon credits, and international cooperation.
- National climate policy and regulatory frameworks.
- CBAM and carbon border adjustment mechanisms.
- Reporting obligations and national inventory systems.
- Exercise: assessing a jurisdiction's climate policy mix.

Day 4: Corporate Governance, Disclosure, and Accounting

- GHG Protocol scopes 1, 2, and 3 accounting.



LEARN BOLD. LEAD BEYOND

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com



- Emissions inventories, boundaries, and data quality.
- TCFD recommendations and IFRS S2 disclosure requirements.
- Climate governance: board oversight and management roles.
- Target setting: science-based targets and net zero commitments.
- Greenwashing risk and assurance expectations.
- Simulation: preparing a climate disclosure package.

Day 5: Climate Finance, Adaptation, and Just Transition

- Climate finance flows, gaps, and instruments.
- Green bonds, sustainability-linked loans, and transition finance.
- Carbon markets as a finance mechanism.
- Adaptation planning and resilience investment.
- Just transition and social dimensions of decarbonisation.
- Climate risk assessment and scenario analysis for portfolios.
- Capstone: presenting a climate economics and governance action plan.

Conclusion

By successfully completing Climate Change: Economics & Governance, participants will gain a practical command of climate science and risk, the economics of carbon and carbon pricing, emissions trading and carbon markets, international and national climate governance, GHG accounting and climate disclosure, and climate finance, adaptation and just transition. They will acquire skills in carbon economics analysis, carbon market assessment, climate disclosure, and climate risk planning that turn climate commitments into governed, financed action. Gentex Training Center designs the programme to help professionals work across climate economics and governance with confidence.





FAQs for the Climate Change: Economics & Governance course

Q1 What is the "Climate Change: Economics & Governance" course about?

It prepares professionals to analyse climate change as an economic and governance problem and to act on it. The course spans climate science and risk foundations, the economics of carbon, international and national climate governance, corporate governance, disclosure and accounting, and climate finance, adaptation and just transition.

Q2 What are the key benefits of the "Climate Change: Economics & Governance" course?

You gain a practical command of climate economics and governance that links the emissions an economy produces with the pricing, governance, and finance that shape its response. The course improves carbon pricing and market analysis, strengthens GHG accounting and disclosure practice, sharpens climate governance and scenario work, and gives you adaptation and finance insight that turns commitments into governed action.

Q3 What skills will I gain from the "Climate Change: Economics & Governance" course?

You will develop four core skills: climate risk assessment with physical and transition risk analysis, carbon economics and carbon pricing instrument assessment, GHG accounting with TCFD and IFRS S2 climate disclosure practice, and climate finance, adaptation and just transition planning.



Q4 What tools, methods, or standards are covered in the "Climate Change: Economics & Governance" course?

The course covers climate science essentials of drivers, feedbacks and tipping points, physical risk across acute hazards and chronic changes, transition risk of policy, technology, market and reputational types, emissions trajectories and global carbon budgets, climate scenarios including IPCC SSPs and IEA pathways, carbon as an externality and the social cost of carbon, damage functions and integrated assessment models, discounting, intergenerational equity and cost-benefit analysis, carbon pricing instruments of carbon tax versus emissions trading, emissions trading system design across caps, allowances and allocation, compliance markets and voluntary carbon markets, the UNFCCC and the Paris Agreement architecture, Nationally Determined Contributions (NDCs) and ratchet mechanisms, Article 6, carbon credits and international cooperation, national climate policy and regulatory frameworks, CBAM and carbon border adjustment mechanisms, reporting obligations and national inventory systems, GHG Protocol scopes 1, 2 and 3 accounting, emissions inventories, boundaries and data quality, TCFD recommendations and IFRS S2 disclosure requirements, climate governance across board oversight and management roles, target setting with science-based targets and net zero commitments, greenwashing risk and assurance expectations, climate finance flows, gaps and instruments, green bonds, sustainability-linked loans and transition finance, adaptation planning and resilience investment, just transition and social dimensions of decarbonisation, and climate risk assessment and scenario analysis for portfolios.



Q5 How is the "Climate Change: Economics & Governance" course applied in real-world practice?

Participants apply it to real work such as comparing carbon pricing instruments for a jurisdiction, designing an ETS cap and allocation approach, building a GHG inventory across scopes, preparing a TCFD-aligned climate disclosure package, running climate scenarios on a portfolio, structuring a green or transition finance proposal, and presenting a climate action plan to a board. The same methods support national policy assessment and climate risk review.