COURSE OVERVIEW TM1129
Macroeconomics in Climate Change

Course Title
Macroeconomics in Climate Change

Course Reference
TM1129

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Date/Venue

Sessions	Date	Venue
1	July 07-11, 2025	TBA Meeting Room, JW Marriott Hotel Madrid, Madrid, Spain
2	September 08-12, 2025	Hampstead Meeting Room, London Marriott Hotel Regents Park, London, UK
3	October 27-31, 2025	TBA Meeting Room, Grand Hyatt Athens, Athens, Greece
4	January 11-15, 2026	Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

Course Description

This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Macroeconomics in Climate Change. It covers the macroeconomics in environmental context and climate change as a macroeconomic challenge; the global carbon cycle, economic systems, externalities and market failures, climate change and global inequality; the macroeconomic models for climate analysis; the impact on GDP and economic growth and employment; and the labor markets and climate change, public finance, climate change trade, competitiveness and climate policies.

Further, the course will also discuss the financial sector and climate risk, inflation and price stability under climate stress; the carbon pricing and taxes, emissions trading systems (ETS), subsidies and incentives; the public investment for decarbonization, green monetary policy and international climate finance; the macroeconomic costs of inaction and adaptation investment strategies; and the insurance and risk sharing mechanisms.

During this interactive course, participants will learn the disaster risk reduction, economic stability, climate migration and macroeconomics; the sectoral adaptation and structural change; the international climate agreements and macroeconomics; the technology, innovation and green economy; the circular economy, macroeconomic transition, just transition and inclusive green growth; and the macroeconomics scenario planning for climate futures and policies integration.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on macroeconomics in climate change
- Discuss the macroeconomics in environmental context and climate change as a macroeconomic challenge
- Identify global carbon cycle, economic systems, externalities and market failures, climate change and global inequality
- Illustrate macroeconomic models for climate analysis and discuss the impact on GDP and economic growth
- Determine employment, labor markets and climate change, public finance, climate change trade, competitiveness and climate policies
- Describe financial sector and climate risk as well as inflation and price stability under climate stress
- Identify carbon pricing and taxes, emissions trading systems (ETS), subsidies and incentives
- Apply public investment for decarbonization, green monetary policy and international climate finance
- Analyze macroeconomic costs of inaction and apply adaptation investment strategies and insurance and risk sharing mechanisms
- Carryout disaster risk reduction, economic stability, climate migration and macroeconomics as well as sectoral adaptation and structural change
- Discuss international climate agreements and macroeconomics including technology, innovation and green economy
- Recognize circular economy, macroeconomic transition, just transition and inclusive green growth
- Illustrate macroeconomics scenario planning for climate futures and policies integration

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of macroeconomics in climate change for executive management team, sub-committee members and employees working in project

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Fee

Madrid/ London/ Athens	**US$ 8,800** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Dubai	**US$ 5,500** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

Mr. Douglas Robinson, MBA, BSc (Honors), Dip, is currently the **President** of **DSR Consulting** and the **Professor** of **Business Studies Unit** (BSU) at **Durban Institute of Technology** (DIT), where he is lecturing at **MBA level** in **Quality Management**, **Quality Control Systems and Standards**, **Legal Compliance and Corporate Governance Responsibilities**, **Corporate Valuation & Capital Restructuring**, Managing **Production Operations**, **Strategic Planning**, **Human Resources Management** (**HRM**), **Leadership** & **Change** Management, **Presentation** Skills, **Negotiation** Skills, **Interpersonal** Skills, **Communication** Skills, **Adaptability** & **Flexibility**, **Learning** & **Self Development**, **Industrial Relationships**, **Driving Performance**, **Performance** Measurement, **Performance Goal** Implementation, **Time Management** Techniques, Organizing Daily Activities, Handling Difficulties & Pressure, Productivity & Feedback Management, **Problem Solving & Decision Making**, **ISO 9001 Lead Auditor**, **Commercial Negotiation & Legal Aspects**, Logistics & Supply Chain Management, **Quality Management**, **Project Financial Planning**, **Financial Management**, **Materials Inventory Management**, **Budgeting & Cost Control**, **Project Accounting**, **Project Management**, **Contract Management**, Operations Management, Procurement Management, Entrepreneurship and International Business.

Mr. Robinson has over **30 years** of international experience in **Contract** Management, **Quality** Management, **ISO Standards**, Logistics & Supply Chain Management, Procurement, Purchasing, Outsourcing Strategies, Project Management, Business Systems, Operations Management and Business Re-Organization. Further, he is a **Registered Assessor** of **Quality** Management, Logistics, Supply Chain Management, Procurement Strategies, Purchasing and Outsourcing.

As a leader in the **Quality**, Procurement and Logistics fields, Mr. Robinson facilitated in-house skills development programmes in a lot of companies worldwide and has **extensive consulting experience** in both the public and private sectors. His experience includes implementing SAP system in Procurement, financial, sales, distribution, materials management and costing.

During his long career life, Mr. Robinson worked for many **International companies** such as Tiger Brands, Nestle's, Mondi Manufacturing, Mondi Forests, Masonite Africa Ltd., Frame etc. He worked as **General Manager**, **Quality Manager**, **Procurement Manager**, **Logistics Manager**, **Logistics Superintendent**, **Project Manager**, **Purchasing Supervisor**, **SAP Facilitator**, etc.

Due to his thorough and long experience and knowledge, Mr. Robinson is **recognized internationally** as an **Expert** in Logistics & Supply Chain Management, Procurement, Purchasing, Outsourcing, Strategic planning, business wellness analysis, **Contract** management, **Project** Management, feasibility studies, financial analysis, cash-flow forecasting, Capital investment analysis, risk analysis, Business process analysis, and **Quality Management Systems**.

Mr. Robinson has a **Master** degree in **Business Administration** (**MBA**) from the **University of Durban-Westville**, a **Bachelor** degree with **Honors** in **Business Management** and **Administration** and **Diplomas** in **Medical Technology**, **Marketing Management**, **Business Management** and **Project Management** from the **University of Rhodesia** and from the **Damelin Management Schoo**l respectively. Further, he is a **Certified Instructor/Trainer**, a **Certified Trainer/Assessor** by the **Institute of Leadership & Management** (**ILM**), an active member of international professional affiliations and delivered innumerable trainings, courses, workshops and seminars globally.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to Macroeconomics in Environmental Context*** *Key Macroeconomic Indicators & Variables • Economic Growth versus Sustainable Development • Market Failures & Externalities • Role of Government in Environmental Economics*
0930 – 0945	*Break*
0945 – 1030	***Climate Change as a Macroeconomic Challenge*** *Overview of Climate Science & Global Warming • Economic Impacts of Climate Change • Interlinkages Between Climate Systems & Economies • Long-Term Risks to Global GDP*
1030 – 1130	***Global Carbon Cycle & Economic Systems*** *Carbon Budget Concepts • Emissions Trends by Region & Sector • Role of Energy Systems in Carbon Output • Link to Global Trade & Production*
1130 – 1215	***Externalities & Market Failures*** *Types of Externalities: Positive & Negative • Public Goods & the Environment • Tragedy of the Commons • Climate Change as a Global Externality*
1215 – 1230	*Break*
1230 – 1330	***Climate Change & Global Inequality*** *Differential Impacts on Developed versus Developing Economies • Climate Justice & Equity • Vulnerable Populations & Economic Displacement • Intergenerational Equity*
1330 – 1420	***Macroeconomic Models for Climate Analysis*** *Traditional Growth Models (Solow, Endogenous Growth) • Integrated Assessment Models (IAMs) • Dynamic Stochastic General Equilibrium Models (DSGE) • Introduction to Climate-Economy Linkages*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***Impact on GDP & Economic Growth*** *Climate Shocks & Output Loss • Long-Term versus Short-Term Growth Impacts • Climate Change & Productivity • Case Studies: Climate Disasters & GDP*
0830 – 0930	***Employment, Labor Markets & Climate Change*** *Job Losses in Vulnerable Sectors • Green Job Creation & Structural Shifts • Labor Mobility & Climate Migration • Policy Instruments for Labor Market Resilience*
0930 – 0945	*Break*
0945 – 1100	***Public Finance & Climate Change*** *Fiscal Risks from Climate Disasters • Climate-Responsive Budgeting • Green Public Investment • Debt Sustainability & Climate Finance*

1100 – 1215	***Trade, Competitiveness & Climate Policies*** *Carbon Leakage & Competitiveness • Border Carbon Adjustments • Global Supply Chains Under Climate Stress • Trade Agreements & Climate Clauses*
1215 – 1230	*Break*
1230 – 1330	***Financial Sector & Climate Risk*** *Physical Risks versus Transition Risks • Role of Central Banks & Regulators • Climate Stress Testing of Financial Institutions • Green Bonds & Sustainable Finance*
1330 – 1420	***Inflation & Price Stability Under Climate Stress*** *Climate Events & Price Volatility • Food & Energy Price Shocks • Implications for Monetary Policy • Inflation Expectations & Climate Risks*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Carbon Pricing & Taxes*** *Economic Rationale for Carbon Pricing • Types of Carbon Taxes • Revenue Use & Redistribution • Global Carbon Price Coordination*
0830 – 0930	***Emissions Trading Systems (ETS)*** *Design of Cap-and-Trade Schemes • EU ETS & Other Regional Systems • Linking ETS Across Borders • Market Stability Mechanisms*
0930 – 0945	*Break*
0945 – 1100	***Subsidies & Incentives*** *Fossil Fuel Subsidies: Impacts & Reform • Renewable Energy Subsidies • Green R&D Funding • Incentives for Carbon Capture & Storage*
1100 – 1215	***Public Investment for Decarbonization*** *Infrastructure for Net Zero • Role of State-Owned Enterprises • National Development Banks • Financing Mechanisms*
1215 – 1230	*Break*
1230 – 1330	***Green Monetary Policy*** *Central Bank Mandates & Climate Goals • Green Quantitative Easing • Climate-Related Financial Disclosure • Monetary Tools for Climate Resilience*
1330 – 1420	***International Climate Finance*** *Role of IMF, World Bank & Regional Banks • Climate Funds (e.g., Green Climate Fund) • Climate Finance Gaps in Low-Income Countries • Blended Finance Models*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Macroeconomic Costs of Inaction*** *Cost-Benefit Analysis of Adaptation • Economic Losses from Climate Inaction • Tipping Points & Irreversible Damage • Case Studies of Economic Collapse from Climate*
0830 – 0930	***Adaptation Investment Strategies*** *Infrastructure for Resilience • Coastal Protection & Water Systems • Climate-Resilient Agriculture • Urban Adaptation Planning*

0930 – 0945	*Break*
0945 – 1100	***Insurance & Risk Sharing Mechanisms*** *Climate Risk Insurance Schemes • Role of Private Insurance Markets • Sovereign Insurance Pools • Catastrophe Bonds*
1100 – 1215	***Disaster Risk Reduction & Economic Stability*** *Early Warning Systems & Macro Stability • Public-Private Partnerships for Resilience • Economic Recovery Packages • Fiscal Buffers for Climate Shocks*
1215 – 1230	*Break*
1230 – 1330	***Climate Migration & Macroeconomics*** *Economic Drivers of Climate Migration • Impact on Labor Markets & Urbanization • Policy Frameworks for Climate Refugees • Regional Economic Implications*
1330 – 1420	***Sectoral Adaptation & Structural Change*** *Agriculture & Food Security • Energy System Adaptation • Industry & Manufacturing Transitions • Services Sector Transformations*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5

0730 – 0830	***International Climate Agreements & Macroeconomics*** *Paris Agreement: Macroeconomic Implications • Global Mitigation Pledges & GDP Impact • Role of G20, OECD & UN • Coordination Challenges*
0830 – 0930	***Technology, Innovation & the Green Economy*** *Role of Innovation in Decarbonization • Green Technologies in Macro Models • Digitalization & Smart Systems • Technology Transfer & Global Equity*
0930 – 0945	*Break*
0945 – 1030	***Circular Economy & Macroeconomic Transition*** *Circularity & Resource Efficiency • Macroeconomic Indicators for Circular Economy • Waste, Recycling & Material Flows • Industrial Policy for Circularity*
1030 – 1130	***Just Transition & Inclusive Green Growth*** *Principles of Just Transition • Social Protection Measures • Regional Development Policies • Dialogue with Labor & Communities*
1130 – 1230	***Macroeconomic Scenario Planning for Climate Futures*** *Climate-Risk Scenario Modeling • Long-Term Planning Tools • Use of IAMs in Policy • Stress Testing Economies for Climate Futures*
1230 – 1245	*Break*
1245 – 1345	***Policy Integration & Future Challenges*** *Aligning Fiscal, Monetary & Climate Policies • Governance for Integrated Climate Action • Role of Data & Analytics • Emerging Risks: AI, Geoengineering & Climate*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

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