

Training Course on Renewable Energy and Sustainability

Professional Development Training Course Outline

Category	Development	Duration	5 Days
Base Fee	\$1,500 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

Training Course on Renewable Energy and Sustainability is designed to provide in-depth knowledge of clean energy sources and sustainable development practices that address the global climate crisis. As the world transitions from fossil fuels to greener alternatives, this course equips professionals, students, and policymakers with the tools and insights to foster innovation, implement energy-efficient technologies, and promote eco-friendly practices across industries.

Participants will explore trending topics like solar power, wind energy, green building, carbon neutrality, and net-zero emissions through real-world case studies and hands-on projects. Whether you're passionate about environmental protection, energy transition, or climate action, this course empowers you to become a catalyst for positive environmental change.

Programme Curriculum

Training Course on Renewable Energy and Sustainability

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Course Objectives

1. Understand the fundamentals of renewable energy technologies.
2. Analyze the environmental impact of non-renewable vs. renewable sources.
3. Explore solar energy systems, including photovoltaic and thermal models.
4. Examine the use of wind turbines and offshore wind power.
5. Evaluate geothermal energy and its applications in urban planning.
6. Identify bioenergy and biomass production techniques.
7. Promote energy efficiency and smart grid technology.
8. Discuss sustainable development goals (SDGs) and the circular economy.
9. Assess the role of green infrastructure in climate resilience.
10. Implement strategies for carbon footprint reduction.
11. Learn about policy frameworks and green financing options.
12. Study the integration of electric vehicles (EVs) in clean energy grids.
13. Apply life cycle analysis (LCA) to measure environmental impact.

Target Audience

1. Environmental Science Students
2. Sustainability Consultants
3. Energy Policy Makers
4. Engineers & Technologists
5. Urban Planners
6. ESG Analysts
7. Corporate Sustainability Officers
8. Clean Energy Entrepreneurs

Course Duration: 5 days

Course Modules

Module 1: Introduction to Renewable Energy

- History and evolution of energy sources
- Global energy demand and challenges
- Types of renewable energy
- Overview of energy markets
- Future of clean energy

Module 2: Solar Energy Systems

- Photovoltaic technology
- Solar thermal applications
- Off-grid vs. grid-tied systems
- Cost and ROI analysis
- Maintenance and safety protocols

Module 3: Wind Power and Wind Turbines

- Principles of wind energy
- Onshore vs. offshore turbines
- Wind energy economics
- Environmental impact assessment
- Wind farm planning

Module 4: Geothermal, Hydro & Bioenergy

- Geothermal heat pumps
- Hydropower systems
- Biomass conversion
- Biofuels production
- Sustainable land use

Module 5: Sustainable Infrastructure & Smart Grids

- Green building certifications (LEED, BREEAM)
- Urban sustainability practices
- Smart grid integration
- Distributed energy resources
- Microgrid management

Module 6: Climate Policy and Green Finance

- UN Sustainable Development Goals (SDGs)
- International climate agreements
- Renewable subsidies and incentives
- ESG investing
- Carbon credits and trading

Module 7: Energy Storage and Future Tech

- Battery technologies
- Hydrogen fuel cells
- Emerging innovations
- Energy forecasting
- Resilience strategies

Module 8: Project Planning and Life Cycle Analysis

- Life Cycle Assessment (LCA)

- Project management tools
- Case studies and reports
- Cost-benefit analysis
- Capstone project planning

Training Methodology

- Interactive lectures
- Expert webinars
- Real-world case studies
- Peer discussions
- Hands-on simulations

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

- The participant must be conversant with English.
- Upon completion of training the participant will be issued with an Authorized Training Certificate
- Course duration is flexible and the contents can be modified to fit any number of days.
- The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.
- One-year post-training support Consultation and Coaching provided after the course.
- 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
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21 Sep 2026	25 Sep 2026	Online	\$1,000
21 Sep 2026	25 Sep 2026	Physical	\$1,500
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

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