Workshop Brochure
Technology & Innovation Series

Title: Workshop on Tokenization of Carbon Credits – GCC Edition

What is SABZA?

At SABZA, we are committed to promoting environmental & social sustainability through governance and protecting the planet. Through our various programs and initiatives, we aim to educate individuals and communities on the importance of reducing waste and conserving natural resources. We employ emerging technologies like **blockchain, IoTs & AI/ML** etc. to accelerate the initiatives. We are pioneer in tokenizing carbon credits and offsets to help **carbon savers** to gain maximum value of their carbon credits. We also assist **carbon emitters** to find high quality carbon credits which have gone through strict **MRV (Measurement, Reporting & verification) protocols**. This workshop is an effort to develop capacity while providing knowledge, skill and experience.

Workshop Overview

Join SABZA's cutting-edge workshop designed to equip professionals in the GCC with the skills to navigate and leverage carbon credit tokenization. Learn how to blend sustainability with blockchain innovation, and develop real-world applications for carbon finance.

Learning Objectives

— Understand carbon credit frameworks and MRV protocols
- Gain foundational knowledge of blockchain and smart contracts
- Explore GCC-specific regulatory and economic contexts
- Develop a tokenized carbon application (lab-based)
- Analyze and present case studies from key industries

Workshop Agenda

Day 1: Foundations

- Introduction to Carbon Markets & Climate Finance
- Blockchain 101: Public vs Private Chains
- Tokenization Mechanics & Life cycle
- GCC Legal Landscape for Environmental Assets

- Industry Use Cases Discussion
- Assignment Launch (Group Tokenization Scenario)

Day 2: Implementation

- MRV & IoT for Carbon Data
- Smart Contracts & dApp Development (Hands-on)
- Token Distribution and Marketplace Access
- Regulatory Reporting & Risk Management
- Group Presentations + Evaluation
- Certification Ceremony

Real-World Case Studies

1. Manufacturing – Emirates Steel (UAE)

Using green hydrogen to reduce emissions, Emirates Steel can tokenize CO_2 savings with MRV data, enabling credit monetization via carbon marketplaces.

2. Building Materials – LafargeHolcim

Cement plants implement CO_2 capture; emissions data converted into verified, blockchain traded carbon credits.

3. MEP Services – ENGIE Cofely

Smart retrofits in buildings (HVAC, lighting) reduce energy consumption and generate tokenizable energy efficiency credits.

Hands-On Activities
- Create & deploy a basic carbon token on Ethereum Sepolia Testnet
- Use MetaMask, Remix, and Truffle
- Simulate MRV data integration into smart contracts
- Explore carbon tokenization & trading platforms (TokenizeX, AirCarbon)

Target Audience
- Sustainability & ESG Consultants
- Web3 Developers
- Environmental Regulators & Policymakers
- MEP & Energy Managers
- Carbon Project Developers

Investment & Certification (Two Options)

Onsite Workshop:
- Fee: USD $1250.00 per participant
- Includes: 2-day training, labs, group presentations, certification, toolkit access, lunches & coffee breaks
- Certificate: **Certified Carbon Tokenization Associate – GCC Edition**

Online Workshop:
- Fee: USD $350.00 per participant
- Includes: 2-day training, labs, group presentations, certification, toolkit access
- Certificate: **Certified Carbon Tokenization Associate – GCC Edition**

WE HAVE GROUP DISCOUNT AVAILABLE UP TO 10% WITH 3+ DELEGATES.

Contact Us

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Support Channel at Discord: https://discord.gg/e3KcQTMs
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