

Digital Assets Course Part I : Foundations of Digital Assets and Distributed Ledger Technology (DTL)

Course Overview

Digital Assets is fast becoming a product that is relevant to know in Financial Markets, with many traditional finance companies and market practitioners keen on learning more about digital asset markets & strategies.

The objective of the course would be to enhance the participant's knowledge of this subject and if Part I and II are taken should allow them to have a stronger footing should they eventually find Sales or Trading roles within their current firms or at digital asset or at crypto native firms.

This course will be suitable for participants with little or moderate skillsets in this emerging industry. The Digital Assets course consists of two stack-up courses of 8 modules which cover all aspect of the Digital Markets albeit at different levels of granularity.

Part I would cover the critical building blocks for building a strong foundation. The topics taught would cover but not be limited to

- What are digital assets and Distributed Ledger Technology (DLT)
- The evolution of the space from 2013 till now
- The current infrastructure in the space

Who Should Attend

Financial Markets practitioners of any seniority who are looking to develop a strong foundation of understanding and knowledge of digital assets. The only requirement would be a base level understanding of the financial markets as many comparisons, analogies and concepts will be in reference to FX markets.

Course Objectives

- To understand the technology and infrastructure that powers digital assets markets
- To understand the different aspects of the digital asset markets trading and investing
- To understand the current & future roles of traders and sales within the digital asset markets environment

Duration of Course – 7 Hours

There will be an Assessment (Multiple Choice Questions) after the training session.

Course Fees - S\$800 + GST (Eligible for FTS Funding)

This course is recognised under the Financial Training Scheme (FTS) and is eligible for FTS claims subject to all eligibility criteria being met.

Please note that in no way does this represent an endorsement of the quality of the training provider and course. Participants are advised to assess the suitability of the course and its relevance to his/her business activities or job roles.

The FTS is available to eligible entities based on the prevalent funding eligibility, quantum and caps. FTS provides up to 70% course fee subsidy support for direct training costs subject to a cap of S\$500 per candidate per course subject to all eligibility criteria being met.

Find out more on www.ibf.org.sg.



Trainer: Mr John Lagman and Mr Fong Chuan Jin

For FMAS Trainers' Profiles, Policy, Guideline and Disclaimer on course management and related policies please visit FMAS website at <https://fmasg.org.sg/professional-development/>.

Course Outline

Module 1: The Anatomy of Digital Assets (90 mins)

- **What is a Digital Asset?** Moving beyond "files"—understanding digital scarcity, programmability, and sovereignty.
- **Taxonomy of Assets:**
 - **Payment Tokens:** (e.g., Bitcoin, Stablecoins).
 - **Utility Tokens:** Access to decentralized services.
 - **Security Tokens:** Tokenized real-world assets (RWA) like real estate or bonds.
 - **NFTs:** Unique identifiers for digital and physical provenance.
- **DLT vs. Blockchain:** Why all blockchains are DLTs, but not all DLTs are blockchains (e.g., DAGs, Corda, Hyperledger).

Module 2: Mechanics of the Ledger (90 mins)

- **Distributed vs. Centralized:** How consensus replaces the "middleman."
- **Smart Contracts:** The "if/then" logic that powers automated finance.
- **Custody Fundamentals:** Public vs. Private keys, and the evolution from "Not your keys, not your coins" to institutional MPC (Multi-Party Computation).

Module 3: The Decade of Evolution (2013 – 2026) (90 mins)

- **2013–2017: The Era of Discovery.** The rise of Altcoins, the Ethereum Whitepaper, and the Wild West of ICOs (Initial Coin Offerings).
- **2018–2021: The Infrastructure Build-out.** The "Crypto Winter" that birthed DeFi (Decentralized Finance), Layer 2 scaling, and the first wave of institutional interest.
- **2022–2024: The Great Shakeout & Legitimacy.** The collapse of bad actors (FTX/Celsius) followed by the landmark approval of Spot Bitcoin/Ether ETFs.
- **2025–2026: The Age of Integration.** Mass tokenization of Treasuries and the shift from "speculation" to "utility-driven" markets.

Module 4: Current Infrastructure & The "On-Chain" Economy (90 mins)

- **The Multi-Chain Landscape:** The dominance of Ethereum vs. the speed of Solana and the interoperability of Cosmos/Polkadot.
- **Traditional Finance (TradFi) Rails:** How SWIFT, BlackRock, and JP Morgan are integrating DLT into existing settlement systems.
- **Stablecoin Dominance:** Why USD-pegged stablecoins became the "killer app" for global cross-border payments.
- **Regulatory Frameworks:** A snapshot of MiCA (Europe), the CLARITY Act (US), and Asian hubs (Singapore/Hong Kong).

Strategic Outlook : Synthesis & Questions & Answers (30 mins)

- **Future Trends:** The convergence of AI and DLT (autonomous agents with wallets).
- **Risk Assessment:** Understanding smart contract risk, regulatory shifts, and volatility.

Assessment (30 mins)