



Blockchain Consultant Program + DeFi Overview

Learn how to Become a Domain Expertise based
Blockchain Consultant.

Batch Starts On

 16th June 2024 (Saturday and Sunday)
 7am to 9am EST

About EMURGO Academy

One of the founding entities of **Cardano**, EMURGO Academy was established in support of EMURGO's global mission to further build a community and increase awareness about the Cardano blockchain technology. Our goal is to bridge the gap between **industry and educational skills**, while exploring new ways to apply Cardano technologies in business.

With a global footprint in countries such as the **USA, India, Japan, Indonesia** and headquartered in **Singapore**, we, at EMURGO Academy, are dedicated to providing world-class education and enhancing learning at a fundamental level. Our premium portfolio of iconic brands, including **Cardano, Trevala, Ergo**, and more, are driving strong growth for us today. But we are relentless, and never content with the status quo.

We have established close connections with industry experts as well as our expertise in **Cardano blockchain R&D** allows us to curate business and technical programs for **entrepreneurs, students and developers, business heads and CXOs** of all levels.



Blockchain Business Consultant

This program is inclined towards **non-IT / non-developer senior working professionals** from various domains (**Banking, Finance, Supply Chain, Healthcare, Government**) interested in understanding how to apply **blockchain** in their domain / various domains and take on the role of a **Blockchain Business Consultant**.

The learner, after completion of this course, will have a strong understanding of various **blockchain protocols**, solutions, various components in existing business solutions, and where blockchain-based components might bring in value. They will also grasp the overall project scope, ways and approaches to systems design, have a good understanding of various technical aspects of building a blockchain-based solution and have a good understanding of challenges, issues, risks, and mitigations and design solutions for various business solution integration projects.

Additionally, they will be able to analyze a business process/ workflow create blockchain-enabled modular solutions which aim to achieve a few requirements for improved efficiency, cost reduction or streamlining of various processes in an industry/ domain.

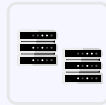
Learners should have completed our **Foundations of Blockchain with Cardano Overview program**.



Focal Points of the program



Blockchain concepts refresher.



Enterprise Blockchain high-level concepts - DLT, private data handling, do's and don'ts.



Enterprise applications - high level concepts – client-server architecture, databases overview, consortiums and governance, DevOps, cloud concepts, blockchain solution selection.



Software engineering concepts - various software engineering methodologies, documentation requirements, testing, CI/CD Pipelines, version control.



Consulting Practices and Approaches - assessing existing solutions, selection of architecture, feasibility analysis, staged delivery, integration with existing systems, drawing up estimates.



Live Interaction with expert consultants.



Use Case Analysis - hands on design - requirements gathering, researching various solutions, use case analysis and design.



Bringing it all together - project proposals, design documents & project schedules.



Program Curriculum Overview

Blockchain concepts revisited

- 2 hour recap of the main points in the FOB
- Types of blockchains, transaction flow,

- High level overview of enterprise blockchains
- Channels
- Private Data

Enterprise Blockchain High level Concepts

- DLT vs Blockchains (HLF, Corda, Sawtooth, Besu, Ethereum, Cardano)
- Chilliz, Tezos, IOTA
- Upcoming DLT solutions in the Enterprise space (IOHK Atala, ...)
- Dos & Don'ts in blockchain projects (porting data, legacy systems, integration)

Consultant interaction

- Consortiums - Creation, Governance, Issues, Types of Implementations - Outsourced infra, vendors, 3rd party IT solutions

- Client-server architecture
- Node / PHP / x technology servers / REST APIs / What they enable
- Database Types: NoSQL / RDBMS
- Consortiums - Creation, Governance, Issues, Types of Implementations - Outsourced infra, vendors, 3rd party IT solutions

- DevOps / Kubernetes / Monitoring Tools
- Cloud concepts (EC2 instances, firewalls, various cloud concepts at a high level)

Enterprise Application High level Concepts

- On-Prem / Cloud (hardware / software stack)
- Custom Protocol Development / Off the shelf Product - Tradeoffs, Benefits & Risks
- Highlighting architectural differences between distributed and decentralized systems., participant interactions

Software Concepts

- ❏ Waterfall / Agile methodology in brief.
- ❏ Initial Proposal , Design document, Project Schedules
- ❏ Testing and its importance
- ❏ Test Servers vs Production Server

Consulting

- ❏ Assessing existing solutions, identifying Business Processes where blockchains can be applied
- ❏ Zeroing in on appropriate architecture (Public / Permissioned / Hybrid)
- ❏ Feasibility Analysis

- ❏ Step by Step Analysis - Focal points to be concentrated upon
- ❏ Stages of a project - Proof-Of-Concept, MVP, Pilot, Production
- ❏ Integration with existing business solutions

- ❏ Drawing up the tentative schedule for each stage
- ❏ Estimating infra, developers resources & Costing for hardware, software, team etc.

Use Case Analysis (14 hours - 3 use cases)

- DLT vs Blockchains (HLF, Corda, Sawtooth, Besu, Ethereum, Cardano)
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- Understanding the requirements

Researching into various solutions

Use case Analysis - Particular Use case (5 hours 1st use case, 4 hours each for succeeding use cases), Group Discussion with Consultant for second use case

Enterprise Application High level Concepts

- Whitepaper creation, Project Proposal Documents, Initial Proposal, Design document, Project Schedules

Presentation & Review to a CXO / Blockchain consultant - Feedback, wrap-up

What makes us different?



Hand-curated internationally aligned curriculum and courses for a **blended learning approach**.



Access to Online Learning Platform - **"My EMURGO"** for collaborative learning, Live Classes, Discussion Forum, recorded lectures, Assignments & Project Submission.



Post-training support and guidance to ensure learners stay updated with the latest version/release.



Live projects to implement the skills learning during training programs to provide the experience of an actual working environment.



Digital Certification for participants to gain a competitive edge in the job market and to help kick-start their entrepreneurial journey.



Programs designed by **CTOs, CXOs, & product heads** to build talent at all levels.

2500+ Professionals Trained

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