EMURGO ACADEMY™

Blockchain Business Consultant

Learn how to Become a Domain Expertise based Blockchain Consultant.

40 Hours

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,

Enterprise Blockchain High level Concepts

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

- 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

Enterprise Application High level Concepts

- 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)

- 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)

- 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 us case

Enterprise Application High level Concepts

- DLT vs Blockchains (HLF, Corda, Sawtooth, Besu, Ethereum, Cardano)
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- DevOps / Kubernetes / Monitoring Tools
- Cloud concepts (EC2 instances, firewalls, various cloud concepts at a high level)

- 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.**

Synchronized Learning Platform (SLP), with features like collaborative learning, discussion forum, recorded lectures, evaluation, and screening.

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.

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