

A Step-by-Step Approach to Designing Blockchain Solutions

An IEEE eLearning Library Course Program

Blockchain is a digital ledger that decentralizes transactions across a shared network.

Immutability, transparency, efficiency, traceability, and security contribute to blockchain technology's growing importance and popularity. Technical professionals can benefit from understanding blockchain's versatility, as well as how it can be applied to numerous industry sectors to improve business operations.

IEEE presents *A Step-by-Step Approach to Designing Blockchain Solutions*, a five-course program offering practical guidance on how to design a blockchain solution. This online program provides the basics of the technology needed to understand the expected benefits of blockchain solutions.

Upon completion of this course program, technical professionals will understand:

- The basics of blockchain technology and its expected benefits
- How to access and design blockchain solutions for businesses
- How to design and propose new solutions, as well as solution benefits
- The expected costs, resources required to develop a solution, and more

Roles that would benefit from this training include Product Managers, Solution Designers, and Solution Architects, among others.



This course contains audio descriptors for the blind and visually impaired which are compatible with screen readers.

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Quick Facts

Develop the skills and knowledge needed to succeed:

Five-course program designed to give engineers an understanding of blockchain solutions from an end-to-end perspective

Courses developed and peer reviewed by experts in their fields, a process that guarantees the quality of technical content

Printable IEEE CEU or PDH certificates awarded upon successful completion of the program via the ILN

Available on-demand through IEEE *Xplore*, the IEEE Learning Network or order files to load on a company LMS

Organizational pricing available: pay one price for all users in an organization. Multi-program discounts also available.

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Courses Included in the Blockchain Solutions Program:

Designing Blockchain Solutions: Making the Case

Learn the basics of blockchain solutions. This course offers you an overview of the connection between blockchain technology and business operations. Upon completion, you will be able to understand blockchain's benefits and challenges, as well as how to assess whether it is a viable solution.

Designing Blockchain Solutions: Defining Functional Requirements

Discover the functional requirements for a successful delivery. In this course, learn about the blockchain solution's ecosystem and key elements. Upon completion, you will understand how to define, specify, and determine all the functional requirements that will lead to the successful delivery of a blockchain solution.

Designing Blockchain Solutions: Defining Non-Functional Requirements

Learn about the non-functional requirements for the development of a blockchain solution. In this course, explore the different layers of blockchain technology while developing the design requirements for your solution. Upon completion, you will be able to define, identify, example, and highlight non-functional requirements.

Designing Blockchain Solutions: Selecting the Platform

How do you choose the right solution? In this course, learn about key platform considerations and get insight about whether to build, buy, or partner to find the right solution. Upon completion, you will better understand how to select the technology that will allow you to implement blockchain solutions.

Designing Blockchain Solutions: Implementing the Solution

How do you implement a blockchain solution? This course provides resources to help identify the common mistakes and pitfalls of blockchain implementation. Upon completion, you will understand how to navigate challenges and drive the creation of a new ecosystem that provides benefits for all those involved.

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