

# BLOCK CHAIN MODULE 02

## Blockchain Technology & Architecture

Arcitura®  
CERTIFIED  
Blockchain Architect

### OVERVIEW

This course delves into blockchain technology architecture and the inner workings of blockchains by exploring a series of key design patterns, techniques and related architectural models, along with common technology mechanisms used to customize and optimize blockchain application designs in support of fulfilling business requirements.

The following primary topics are covered:

- Common Blockchain Technology Mechanisms and Artifacts
- Node Monitor, Automated Node Deployer, Node Placement Monitor
- Consensus Processor, Block Maker, Identity Federator
- Hashing Engine, Chaining Engine, Identity Verifier, Wallet
- Node Repository, Ledger Replicator, Live Node Migrator
- Integrity and Validation Blockchain Design Patterns
- Block Singleton, Sidechain, Block Validation Consensus
- Scalability and Reliability Blockchain Design Patterns
- Auto-Scaling Nodes, Guaranteed Minimum Full Nodes
- Geo Scaling, Block Size Update
- Security and Privacy Blockchain Design Patterns
- Forced On-Chain Transactions, Federated Chain
- User Data Protection
- Utility Blockchain Design Patterns
- Transaction Record Tagging
- Lightweight Node, Node Task Abstraction

Duration: 1 Day

### TRAINING + CERTIFICATION

This course is part of a training and accreditation program through which official certification can be achieved and for which official training and certification badges can be issued.



[www.arcitura.com/blockchain](http://www.arcitura.com/blockchain)

### eLEARNING + PRINTED STUDY KITS

This Arcitura study kit includes the contents listed below. These course materials are available in full-color printed format, as well as in eLearning subscription format, via online access and offline file download.

- Workbook (2 of 3)
- Exam Preparation Guide (2 of 3)
- Mind Map Poster
- Patterns and Mechanisms Poster
- Flashcards
- Audio Tutor Recording



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	Certified DevOps Specialist	Certified Blockchain Architect	Certified IoT Architect	Certified Containerization Architect	Certified Machine Learning Specialist	Certified Artificial Intelligence Specialist
MODULE 01 Fundamental DevOps	●					
MODULE 02 DevOps in Practice	●					
MODULE 03 DevOps Lab	●					
MODULE 01 Fundamental Blockchain		●				
<b>MODULE 02 Blockchain Technology &amp; Architecture</b>		●				
MODULE 03 Blockchain Technology & Architecture Lab		●				
MODULE 01 Fundamental IoT			●			
MODULE 02 IoT Technology & Architecture			●			
MODULE 03 IoT Technology & Architecture Lab			●			
MODULE 01 Fundamental Containerization				●		
MODULE 02 Containerization Technology & Architecture				●		
MODULE 03 Containerization Technology & Architecture Lab				●		
MODULE 01 Fundamental Machine Learning					●	
MODULE 02 Advanced Machine Learning					●	
MODULE 03 Machine Learning Lab					●	
MODULE 01 Fundamental Artificial Intelligence						●
MODULE 02 Advanced Artificial Intelligence						●
MODULE 03 Artificial Intelligence Lab						●