

# DEVOPS MODULE 02

## DevOps in Practice

Arcitura®  
CERTIFIED  
DevOps Specialist

### OVERVIEW

This course delves into the application of DevOps practices and models by exploring how the DevOps lifecycle and its associated stages can be carried out and further identifying related challenges and considerations. In-depth coverage is provided for the application of Continuous Integration (CI) and Continuous Delivery (CD) approaches, along with an exploration of creating deployment pipelines and managing data flow, solution versions and tracking solution dependencies.

The following primary topics are covered:

- Understanding Codified Definitions
- Infrastructure-as-Code (IaC) and Configuration Modules
- Continuous Testing and Collaborative Version Control
- Immutable Infrastructure and Self-Documented Resources
- Configuration-as-Code (CaC) and Continuous Software Releases
- Traceable Configuration Changes and Configuration Status Awareness
- Programmatic Versioning and Automated Configuration Testing
- Policy-as-Code (PaC) and Policy Systems
- Automated Policy Application and Enforcement Testing
- The 17 Common DevOps Metrics
- Continuous Monitoring
- The 8 Common DevOps Monitors
- Measuring DevOps, Mapping Metrics to Monitors
- Mapping Metrics and Monitors to Pipeline Stages
- DevOps with Microservices and Containers
- DevOps with Cloud Computing and Pay-Per-Use Monitoring
- CI, CD, Continuous Deployment with Microservices and Cloud Computing
- IaC, CaC, PaC with Microservices and Cloud Computing

This course further includes the DevOps Tool Vendor Supplement with descriptions of current toolsets, such as Ansible, Terraform, Chef, Puppet, Jenkins, Kubernetes, AWS Code Pipeline and Elastic Beanstalk. This is an optional supplement with content that is not covered on the exam.

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.

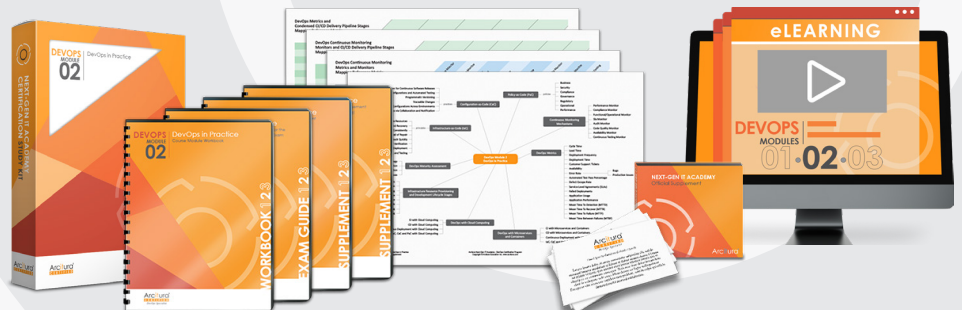


[www.arcitura.com/devops](http://www.arcitura.com/devops)

### 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
- Metrics and Monitors Poster
- Metrics and Delivery Stages Poster
- Monitors and Delivery Stages Poster
- Flashcards
- Audio Tutor Recording



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DevOps  
Specialist

Certified  
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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



MODULE 02 Blockchain Technology & Architecture



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

