

# SOACP MODULE 09

## Fundamental Microservice Architecture & Containerization

Arcitura®  
CERTIFIED  
Microservice Architect

### OVERVIEW

This course establishes foundational microservice architecture and design principles, and further introduces containerization concepts and container characteristics, along with a series of enabling technologies and technology drivers for cloud-based microservices. A set of fundamental design patterns are provided and the course concludes with an overview of DevOps process and practices.

The following primary topics are covered:

- Introduction to Microservice Architecture
- Common Microservice Design Challenges
- Microservices and Design Granularity
- Microservice Guiding Design Principles
- Introduction to Containerization
- Containerization vs. Virtualization
- Fundamental Container Architecture Elements
- Container Engines, Build Files, Images and Networking
- Microservice Automation, Logging and Monitoring
- Microservice Instance Registration
- Scaling Technology, Basic Scalability Types and Mechanisms
- Technology Drivers for Cloud-based Microservice Deployments
- Micro Task Abstraction and Micro Task Segregation
- Rich Containers and Logical Pod Containers
- DevOps Practices and Benefits
- DevOps Stages and Toolchains
- Domain-Driven Design and Microservices

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.

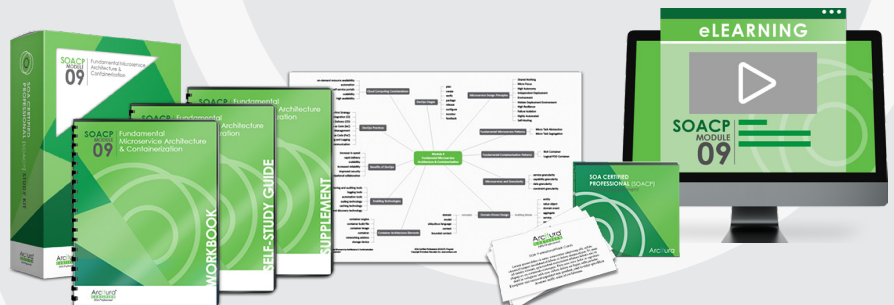


[www.arcitura.com/soacp/microservice](http://www.arcitura.com/soacp/microservice)  
[www.arcitura.com/soacp/consultant](http://www.arcitura.com/soacp/consultant)

### 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
- Self-Study Guide
- Supplement
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings (usb)



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EXAM PROCTORING

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**Credly**

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## Fundamental Microservice Architecture & Containerization

	Certified SOA Professional*	Certified SOA Analyst	Certified SOA Architect	Certified Microservice Architect	Certified Service Tech Consultant	Certified Service API Specialist	Certified Service Governance Specialist	Certified Service Security Specialist
MODULE 01 Fundamental SOA, Services & Microservices	●	●	●	●	●	●	●	●
MODULE 02 Service Technology Concepts	○		●	●	●	●		●
MODULE 03 Design & Architecture w/ SOA, Services & Microservices	○	●	●				●	
MODULE 04 Fundamental SOA Analysis & Modeling w/ Services & Microservices		●						
MODULE 05 Advanced SOA Analysis & Modeling w/ Services & Microservices		●						
MODULE 06 SOA Analysis & Modeling Lab w/ Services & Microservices		●						
MODULE 07 Advanced SOA Design & Architecture w/ Services & Microservices			●					
MODULE 08 SOA Design & Architecture Lab w/ Services & Microservices			●					
<b>MODULE 09 Fundamental Microservice Architecture &amp; Containerization</b>				●	●			
MODULE 10 Advanced Microservice Architecture & Containerization				●				
MODULE 11 Microservice Architecture & Containerization Lab				●				
MODULE 12 Fundamental Service API Design & Management					●	●		
MODULE 13 Advanced Service API Design & Management						●		
MODULE 14 Service API Design & Management Lab						●		
MODULE 15 Fundamental Service Governance & Project Delivery							●	
MODULE 16 Advanced Service Governance & Project Delivery							●	
MODULE 17 Service Governance & Project Delivery Lab							●	
MODULE 18 Fundamental Security for Services, Microservices & SOA					●			●
MODULE 19 Advanced Security for Services, Microservices & SOA								●
MODULE 20 Security Lab for Services, Microservices & SOA								●

\* The Certified SOA Professional designation is automatically issued when achieving any other SOACP certification. It can also be achieved by receiving passing grades on Exams S90.01B + S90.02B or S90.01B + S90.03B.