

SOACP MODULE 09

Fundamental Microservice Architecture & Containerization

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:

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- 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

Arcitura®
CERTIFIED
Microservice Architect

CERTIFICATION

This course is part of an accreditation curriculum through which one or more official certifications can be achieved.



EXAM \$90.09B

Exams are generally available at Pearson VUE testing centers worldwide, via Pearson VUE online proctoring and on-site delivery as part of private workshops.



STUDY KIT CONTENTS

This course is available as part of an Arcitura Study Kit that includes the contents listed below. In addition to the base course materials used during training workshops, additional materials designed for self-study purposes are also included.

- Presentation Booklet
- Workbook
- Self-Study Guide
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings (usb)

