Cloud Capacity Specialist
Certification

Arcitura® CERTIFIED
Cloud Capacity Specialist

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Arcitura® On-Site EXAM PROCTORING

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The Cloud Certified Professional (CCP) program from Arcitura is dedicated to excellence in the fields of cloud computing technology, mechanisms, platforms, architecture, security, governance and capacity. A collection of 21 courses establishes a set of 8 vendor-neutral industry certifications with different areas of specialization.

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Arcitura®
CERTIFIED
Cloud Capacity Specialist

CERTIFICATION

A Certified Cloud Capacity Specialist has obtained proven knowledge and capabilities pertaining to the capacity planning, monitoring, and management of cloud platforms, cloud-based resources, and cloud-based solutions to ensure that technology architecture layers within cloud environments transparently grow and evolve in response to on-going demands.

The Cloud Capacity Specialist track is comprised of CCP Modules 1, 2, 19, 20 and 21, the outlines for which are provided in the upcoming pages. Depending on the exam format chosen, attaining the Cloud Capacity Specialist certification can require passing a single exam or multiple exams. Upon achieving the accreditation, certification holders receive a formal digital certificate and an Acclaim/Credly digital badge with an account that supports the online verification of certification status.

For more information, visit www.arcitura.com/ccp/capacity

An honors designation is awarded when the exam(s) are completed with a grade that is at least 10 or more percentage points higher than the standard passing grade.

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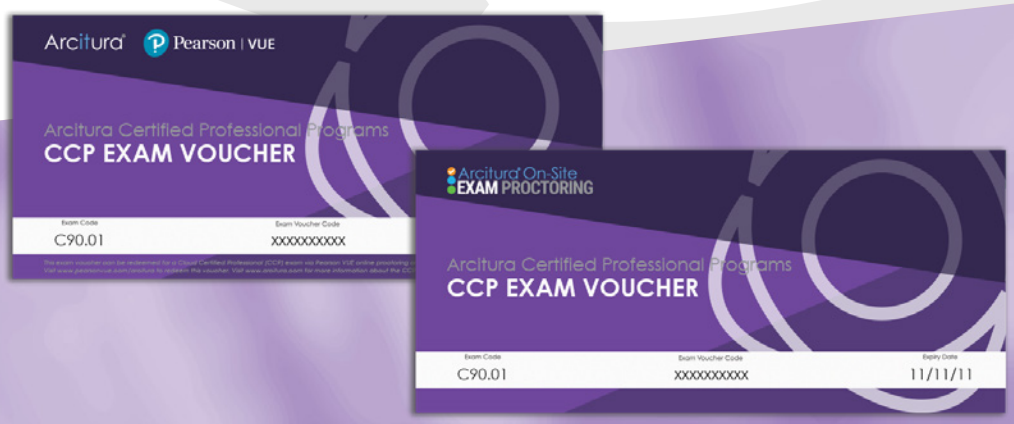
EXAMS

You can take exams anywhere in the world via Pearson VUE testing centers, Pearson VUE online proctoring and Arcitura on-site exam proctoring at your location.

For each certification, candidates have three flexible exam format options:

- Complete one module-specific exam for each course module in Cloud Capacity Specialist certification track. This is recommended for those who want to progress gradually through the track and who would like to be assessed after each course module before proceeding to the next.
- Complete a single combined exam for the entire Cloud Capacity Specialist certification track. Recommended for those who want to only take a single exam that encompasses all course modules within this track.
- Complete a partial exam. Recommended for those who have already obtained a CCP certification and would like to achieve the Cloud Capacity Specialist certification without having to be retested on CCP Modules 1 and 2.

Visit www.arcitura.com/exams for more information. (Note that not all exam formats may be available via all exam delivery options.)



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Fundamental Cloud Computing

MODULE
01

This foundational course provides end-to-end coverage of fundamental cloud computing topics as they pertain to both technology and business considerations. The course content is divided into a series of modular sections, each of which is accompanied by one or more hands-on exercises.

The following primary topics are covered:

- Fundamental Cloud Computing Terminology and Concepts
- Basics of Virtualization
- Specific Characteristics that Define a Cloud
- Understanding Elasticity, Resiliency, On-Demand and Measured Usage
- Benefits, Challenges and Risks of Contemporary Cloud Computing Platforms and Cloud Services
- Cloud Resource Administrator and Cloud Service Owner Roles
- Cloud Service and Cloud Service Consumer Roles
- Understanding the Software as a Service (SaaS) Cloud Delivery Model
- Understanding the Platform as a Service (PaaS) Cloud Delivery Model
- Understanding the Infrastructure as a Service (IaaS) Cloud Delivery Model
- Combining Cloud Delivery Models
- Public Cloud, Private Cloud, Hybrid Cloud and Community Cloud Deployment Models
- Business Cost Metrics and Formulas for Comparing and Calculating Cloud and On-Premise Solution Costs
- Formulas for Calculating and Rating SLA Quality of Service Characteristics

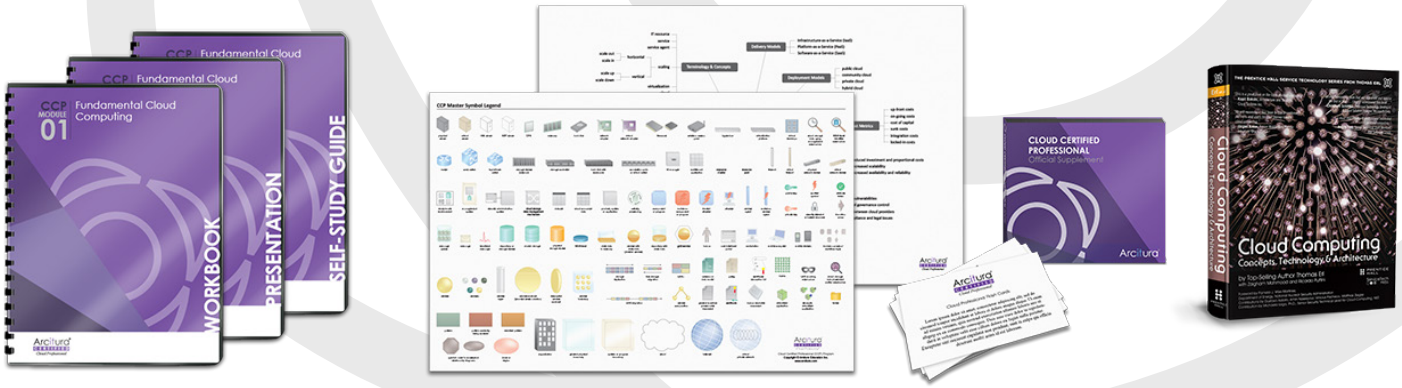
MORE INFO

For curriculum information, visit www.arcitura.com/ccp.

CONTENTS

This course is available as part of an Arcitura Study Kit in full-color printed and eLearning formats. In addition to the base course materials used during training workshops, additional materials designed for self-study purposes are also included.

- Workbook
- Presentation Booklet
- Self-Study Guide
- Symbol Legend Poster
- Mind Map Poster
- Flashcards
- Cloud Computing Textbook
- Audio Tutor Recordings (usb)



eLEARNING

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Cloud Technology Concepts

MODULE
02

This course explores a range of the most important and relevant technology-related topics that pertain to contemporary cloud computing platforms. The course content does not get into implementation or programming details, but instead keeps coverage at a conceptual level, focusing on topics that address cloud service architecture, cloud security threats and technologies, virtualization and containerization.

Proven technologies are defined and classified as concrete architectural building blocks called “mechanisms”. The purpose of this course is to introduce cloud computing-related technology topics in a manner that is accessible to a wide range of IT professionals, as well as to empower participants with an understanding of the fundamental mechanics of a cloud platform, how the different “moving parts” can be combined, and how to address common threats and pitfalls.

The following primary topics are covered:

- Cloud Computing Mechanisms that Establish Architectural Building Blocks
- Virtual Servers, Containers, Ready-Made Environments, Failover Systems and Pay-Per-Use Monitors
- Automated Scaling Listeners, Multi-Device Brokers and Resource Replication
- Understanding How Individual Cloud Computing Mechanisms Support Cloud Characteristics
- An Introduction to Containerization, Container Hosting and Logical Pod Containers
- A Comparison of Containerization and Virtualization
- Cloud Balancing and Cloud Bursting Architectures
- Common Risks, Threats and Vulnerabilities of Cloud-based Services and Cloud-hosted Solutions
- Cloud Security Mechanisms used to Counter Threats and Attacks
- Understanding Cloud-Based Security Groups and Hardened Virtual Server Images
- Cloud Service Implementation Mediums (including Web Services and REST Services)
- Cloud Storage Benefits and Challenges, Cloud Storage Services, Technologies and Approaches
- Non-Relational (NoSQL) Storage Compared to Relational Storage
- Cloud Service Testing Considerations and Testing Types
- Service Grids and Autonomic Computing
- Cloud Computing Industry Standards Organizations

MORE INFO

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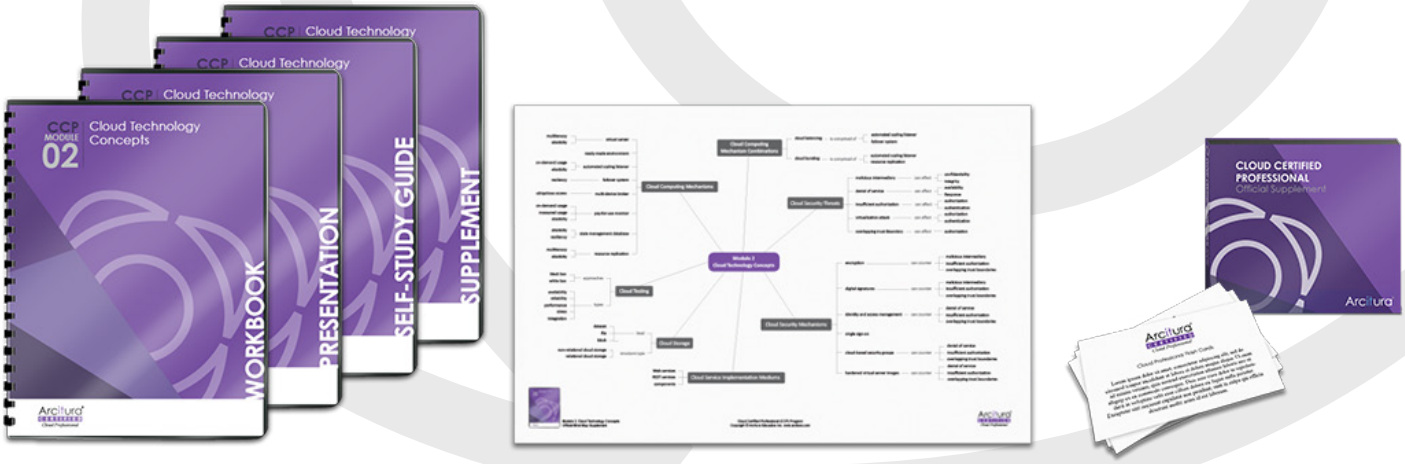
- Workbook
- Presentation Booklet
- Self-Study Guide
- Vendor Examples Supplement
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings (usb)



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Fundamental Cloud Capacity

MODULE
19

This course provides essential coverage of capacity management practices and tools, as they apply to the management of virtualization, storage and network capacity domains, parameters and conditions.

The following primary topics are covered:

- Capacity Management Drivers
- Capacity Management Goals & Benefits
- Fundamental Concepts & Terminology
- Performance Management & Performance Data Collection
- Workload Analysis & Cloud-based Workload Management
- Capacity Planning
- Demand Management
- Business Capacity
- Service Capacity
- Resource Capacity
- Efficient Operational Environment
- Capacity Boundaries
- Network & System Monitoring Requirements
- Automated Load Generation

MORE INFO

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Advanced Cloud Capacity

MODULE
20

This course delves into advanced topics that pertain to capacity management, with an emphasis on calculation, planning and assessment.

The following primary topics are covered:

- Materials Requirements Planning (MRP)
- Capacity Requirement Planning (CRP)
- Capacity Calculations for Storage, Operating Systems, Networks, etc.
- Service Capacity Estimation and Calculation
- Resource Capacity Estimation and Calculation
- Virtualization Capacity Estimation and Calculation
- Business Capacity Assessment for Cloud Providers and Cloud Consumers
- Implementing the Capacity Management Plans
- Evaluating Cloud Providers Capacity
- Creating a Capacity Growth Chart
- Dynamic Cloud-based Capacity
- System Health & Capacity Reporting

MORE INFO

For curriculum information, visit www.arcitura.com/ccp.

CONTENTS

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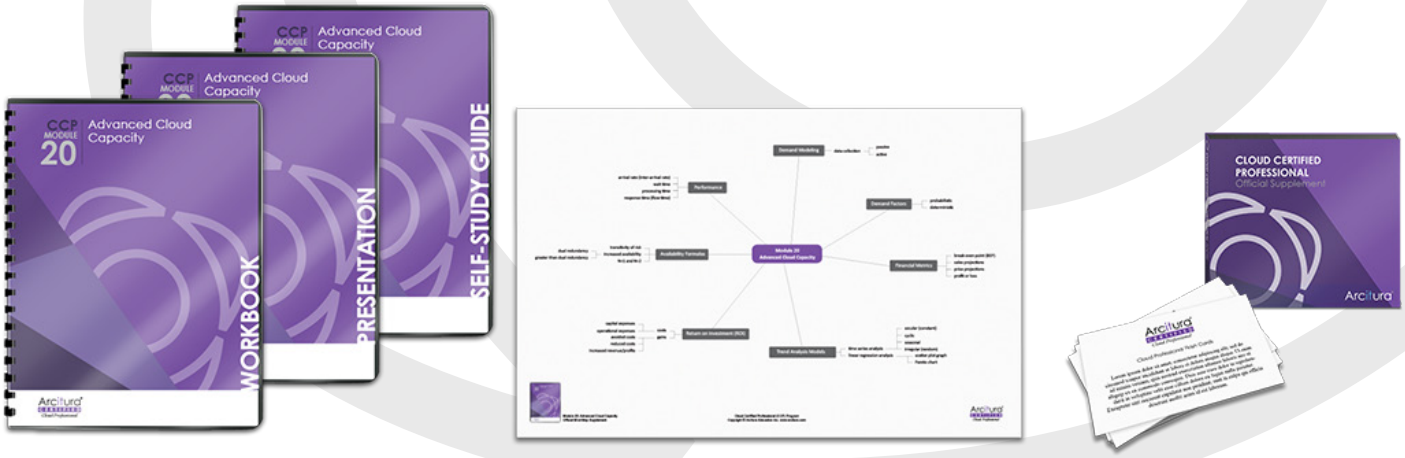
- Workbook
- Presentation Booklet
- Self-Study Guide
- Mind Map Poster
- Flashcards
- Audio Tutor Recordings (usb)



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Cloud Capacity Lab

MODULE
21

This course module presents participants with a series of exercises and problems that are designed to test their ability to apply their knowledge of topics covered previously in course modules 19 and 20. Completing this lab will help highlight areas that require further attention and will further prove hands-on proficiency in the application of cloud capacity planning and management practices.

As a hands-on lab, this course provides a set of detailed exercises that require participants to solve a number of inter-related problems, with the ultimate goal of evaluating and creating cloud capacity management plans and strategies.

For instructor-led delivery of this lab course, the Certified Cloud Trainer works closely with participants to ensure that all exercises are carried out completely and accurately. Attendees can voluntarily have exercises reviewed and graded as part of the class completion.

For individual completion of this course as part of the Module 21 Study Kit, a number of supplements are provided to help participants carry out exercises with guidance and resource references.

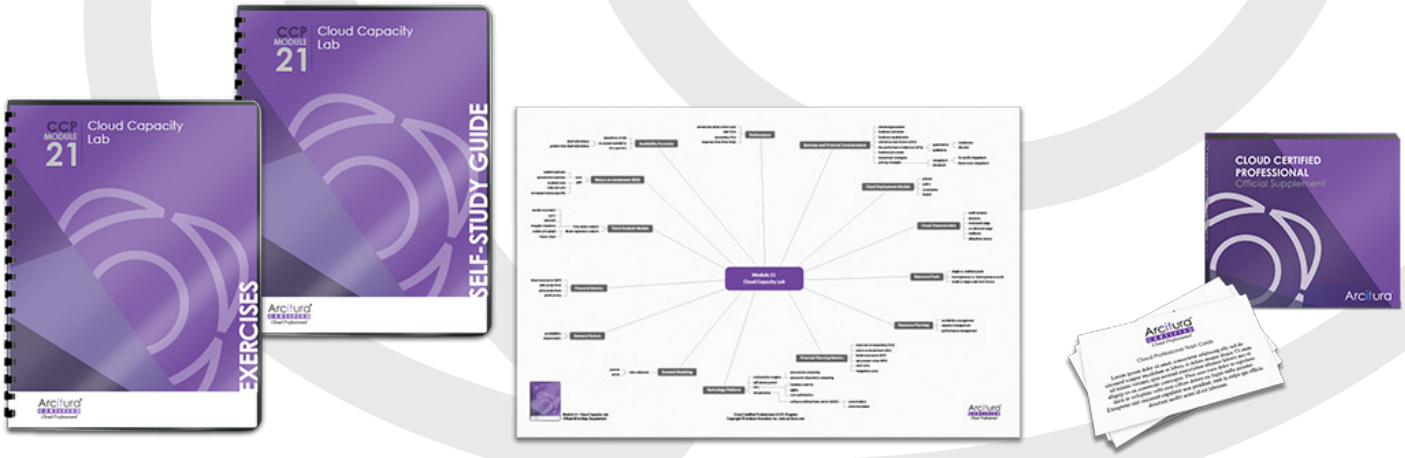
MORE INFO

For curriculum information, visit www.arcitura.com/ccp.

CONTENTS

This course is available as part of an Arcitura Study Kit in full-color printed and eLearning formats. In addition to the base course materials used during training workshops, additional materials designed for self-study purposes are also included.

- Lab Exercises Booklet
- Self-Study Guide
- Mind Map Poster
- Flashcards
- Audio Tutor Recording (usb)



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Next-Gen IT Academy Certifications

Arcitura® CERTIFIED

		Certified DevOps Specialist	Certified Blockchain Architect	Certified IoT Architect	Certified Containerization Architect	Certified Machine Learning Specialist	Certified Artificial Intelligence Specialist
DEVOPS MODULE 01	Fundamental DevOps	●					
DEVOPS MODULE 02	DevOps in Practice	●					
DEVOPS MODULE 03	DevOps Lab	●					
BLOCKCHAIN MODULE 01	Fundamental Blockchain		●				
BLOCKCHAIN MODULE 02	Blockchain Technology & Architecture		●				
BLOCKCHAIN MODULE 03	Blockchain Technology & Architecture Lab		●				
IoT MODULE 01	Fundamental IoT			●			
IoT MODULE 02	IoT Technology & Architecture			●			
IoT MODULE 03	IoT Technology & Architecture Lab			●			
CONTAINERIZATION MODULE 01	Fundamental Containerization				●		
CONTAINERIZATION MODULE 02	Containerization Technology & Architecture				●		
CONTAINERIZATION MODULE 03	Containerization Technology & Architecture Lab				●		
MACHINE LEARNING MODULE 01	Fundamental Machine Learning					●	
MACHINE LEARNING MODULE 02	Advanced Machine Learning					●	
MACHINE LEARNING MODULE 03	Machine Learning Lab					●	
AI MODULE 01	Fundamental Artificial Intelligence						●
AI MODULE 02	Advanced Artificial Intelligence						●
AI MODULE 03	Artificial Intelligence Lab						●

To learn more,
visit: www.arcitura.com/nextgen

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Arcitura® CERTIFIED *Cloud Professional*

CLOUD CERTIFIED PROFESSIONAL (CCP)

CLOUD SCHOOL

	Certified Cloud Professional*	Certified Cloud Technology Professional	Certified Cloud Architect	Certified Cloud Security Specialist	Certified Cloud Governance Specialist	Certified Cloud Storage Specialist	Certified Cloud Virtualization Specialist	Certified Cloud Capacity Specialist
MODULE 01 Fundamental Cloud Computing	●	●	●	●	●	●	●	●
MODULE 02 Cloud Technology Concepts	●	●	●	●	●	●	●	●
MODULE 03 Cloud Technology Lab		●						
MODULE 04 Fundamental Cloud Architecture			●					
MODULE 05 Advanced Cloud Architecture			●					
MODULE 06 Cloud Architecture Lab			●					
MODULE 07 Fundamental Cloud Security				●				
MODULE 08 Advanced Cloud Security				●				
MODULE 09 Cloud Security Lab				●				
MODULE 10 Fundamental Cloud Governance					●			
MODULE 11 Advanced Cloud Governance					●			
MODULE 12 Cloud Governance Lab					●			
MODULE 13 Fundamental Cloud Storage						●		
MODULE 14 Advanced Cloud Storage						●		
MODULE 15 Cloud Storage Lab						●		
MODULE 16 Fundamental Cloud Virtualization							●	
MODULE 17 Advanced Cloud Virtualization							●	
MODULE 18 Cloud Virtualization Lab							●	
MODULE 19 Fundamental Cloud Capacity								●
MODULE 20 Advanced Cloud Capacity								●
MODULE 21 Cloud Capacity Lab								●

** The Certified Cloud Professional designation is automatically issued when achieving any other CCP certification. It can also be achieved by receiving passing grades on Exams C90.01 + C90.02.*

To learn more,
visit: www.arcitura.com/ccp

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BIG DATA SCIENCE CERTIFIED PROFESSIONAL (BDSCP)

BIG DATA SCIENCE SCHOOL

Arcitura® CERTIFIED *Big Data Professional*

	Certified Big Data Professional*	Certified Big Data Science Professional	Certified Big Data Scientist	Certified Big Data Consultant	Certified Big Data Engineer	Certified Big Data Architect	Certified Big Data Governance Specialist
MODULE 01 Fundamental Big Data	●	●	●	●	●	●	●
MODULE 02 Big Data Analysis & Technology Concepts	●	●	●	●	●	●	●
MODULE 03 Big Data Analysis & Technology Lab		●		●			
MODULE 04 Fundamental Big Data Analysis & Science			●	●			
MODULE 05 Advanced Big Data Analysis & Science			●				
MODULE 06 Big Data Analysis & Science Lab			●				
MODULE 07 Fundamental Big Data Engineering				●	●		
MODULE 08 Advanced Big Data Engineering					●		
MODULE 09 Big Data Engineering Lab					●		
MODULE 10 Fundamental Big Data Architecture						●	
MODULE 11 Advanced Big Data Architecture						●	
MODULE 12 Big Data Architecture Lab						●	
MODULE 13 Fundamental Big Data Governance							●
MODULE 14 Advanced Big Data Governance							●
MODULE 15 Big Data Governance Lab							●

** The Certified Big Data Professional designation is automatically issued when achieving any other BDSCP certification. It can also be achieved by receiving passing grades on Exams B90.01 + B90.02.*

To learn more,
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Arcitura® CERTIFIED *SOA Professional*

SOA Certified Professional (SOACP)

SOA SCHOOL

		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	Certified Service QA 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			●						
MODULE 09	Fundamental Microservice Architecture & Containerization				●	●				
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								●	
MODULE 21	Fundamental Quality Assurance for Services, Microservices & SOA									●
MODULE 22	Advanced Quality Assurance for Services, Microservices & SOA									●
MODULE 23	Quality Assurance 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.*

To learn more,
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