CLOUD COMPUTING PROFESSIONAL CONSULTING

Training & Certification Guide



About Cloud School

The Cloud School from Arcitura provides formal education and accreditation programs dedicated to fields of practice associated with Cloud Computing, including technology architecture, security, governance and specialized areas of cloud technology.

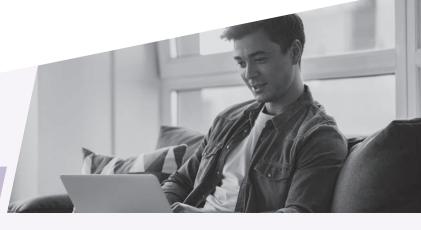
The Cloud School curriculum is comprised of 18 course modules and 7 certification tracks. Exams are available worldwide via Pearson VUE testing centers, as well as via Pearson VUE OnVue online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on the required exam(s) achieves a certification for which a digital accreditation certificate is automatically issued by Arcitura and a digital certification badge is issued by Acclaim/Credly.

	TABLE OF CONTENTS	
03	How to Take This Course	///
03 04	How to Get Started	///
05	How to Get Certified	///
06	Course Module Outlines	///
09	Training and Exam Preparation Resources	///
10	Arcitura Certification Programs	///

HOW TO TAKE THIS COURSE



ARCITURA ELEARNING OPTIONS



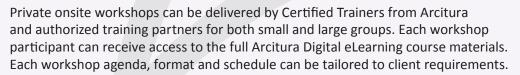
To give you the most flexibility to achieve your learning goals and accommodate your preferences, this course is made available via two Arcitura eLearning solutions: An interactive environment with graded exercises and a graded self-test, as well as a study kit account that supports online/offline access and custom annotations.

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

To enroll, visit: digital.arcitura.com/courses



Onsite Workshops



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



VIRTUAL WORKSHOPS



Private virtual workshops can be delivered by Certified Trainers for small and large groups, as well as individual participants. Workshop participants receive access to the course materials via the Arcitura Digital eLearning platform. Virtual workshop agendas can be tailored with greater flexibility to accommodate more distributed and fragmented training schedules.

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

Several additional learning and exam preparation products and services are available, including coaching, exam prep kits and digital downloads. See the Training and Exam Preparation Resources page for details.













HOW TO GET STARTED

Welcome to the Cloud Computing Professional Consulting course! This course is comprised of a set of modules. Each module has a set of lessons and is further supplemented with exercises to help reinforce your understanding of key topics. Upon completing the course, you can optionally proceed to prepare yourself for the certification exam (as explained on the How to get Certified page).

Additional resources are available to assist you with completing this course, including downloadable digital course files, printed course materials, coaching hours and instructorled training services (as explained on the *Training and Exam Preparation Resources* page.)

PREREQUISITE

The prerequisite for this course is the completion of the Cloud Computing course. It is recommended that you complete the Cloud Computing course prior to starting the Cloud Computing Professional Consulting course.





A Certified Cloud Computing Consultant has knowledge of essential cloud delivery models, platforms and technologies, as well as an understanding of fundamental cloud technology architecture models and cloud security threats and practices, so as to provide guidance and advisory services.



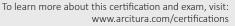
HOW TO GET CERTIFIED

You can become a Certified Cloud Computing Consultant! This course can prepare you for the official Cloud Computing Consultantt Certification exam, which can be taken worldwide at Pearson VUE testing centers, via Pearson VUE online proctoring and/or Arcitura direct proctoring.

Upon attaining a passing grade on the certification exam (and fulfilling any other prerequisite exam requirements) you will achieve the Cloud Computing Consultant Certification, after which you will automatically receive an official digital Accreditation Certificate and a digital Certification Badge from Acclaim/Credly with an account that supports the online verification of your certification status. Digital accreditation certificates and badges are free of charge.

Additional resources are available to assist you with preparing for the certification exam, including practice exam questions, downloadable digital course files, printed course materials, coaching hours and instructor-led training services (as explained on the Training and Exam Preparation Resources page.)

MORE INFO













The Cloud Computing Professional Consulting course covers fundamental cloud technology architecture models and design practices, as well as essential cloud security threats, controls and counter-measures.

COURSE MODULE OUTLINES

The Cloud Computing Professional Consulting course is comprised of the following course modules. Outlines for these course modules are provided on the subsequent pages.

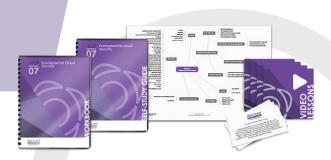


Fundamental Cloud Governance



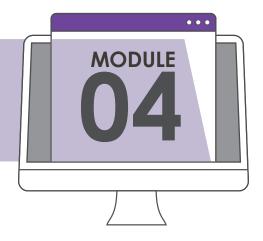


Fundamental Cloud Security





Fundamental Cloud Architecture





This course module provides provides a technical drill-down into the inner workings and mechanics of foundational cloud computing platforms. Private and public cloud environments are dissected into concrete, componentized building blocks (referred to as "patterns") that individually represent platform feature-sets, functions and/or artifacts, and are collectively applied to establish distinct technology architecture layers.

Building upon these foundations, Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS) and Infrastructure-as-a-Service (laaS) environments are further explored as compound patterns, comprised of unique and shared building blocks.

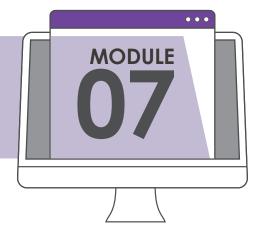
The module is structured as a guided tour through these architectural layers, describing primary components, highlighting shared components, exploring containerization extensions and explaining how building blocks can be assembled and implemented via cloud computing mechanisms and practices.

The following primary topics are covered:

- Understanding the Technology Architecture of Private Clouds and Public Clouds
- Understanding the Technology Architecture of SaaS, PaaS and ISaaS Environments
- Automated Administration and Centralized Remote Administration
- Container Sidecars and Container Chains
- Self-Provisioning and Platform Provisioning
- Rich Containers and Logical Pod Containers
- Bare-Metal Provisioning and Resource Management
- Single-Node Multi-Containers and Multipath Resource Access
- Usage Monitoring and Broad Access
- Realtime Resource Availability and Pay-as-You-Go
- Shared Resources and Resource Pooling
- Rapid Provisioning and Resource Reservation
- Non-Disruptive Service Relocation and Service State Management
- Workload Distribution and Dynamic Scalability



Fundamental Cloud Security





This foundational course module provides a well-rounded, end-to-end presentation of essential techniques, mechanisms, patterns and industry technologies for establishing cloud-based security controls and security architectures. The cloud security fundamentals covered in Module 2 are continued by introducing threat categorizations and new cloud security mechanisms.

The course module then delves into a series of cloud security mechanisms and associated architectural patterns that explore a variety of topics, including cloud network security, identity and access management, and trust assurance.

The following primary topics are covered:

- Cloud Security Basics
- Common Cloud Security Mechanisms
- Cloud Security Threats
- Cloud Security Threat Categorization Methodology
- Identification and Treatment of Common Threats
- Cloud Network Security Patterns and Supporting Mechanisms
- Securing Network Connections and Cloud Authentication Gateways
- Collaborative Monitoring and Logging
- Independent Cloud Auditing
- Cloud Identity and Access Management Patterns and Supporting Mechanisms
- Federating and Enabling Secure Interoperability among Cloud Consumers
- Trust Assurance Patterns and Supporting Mechanisms
- Trust Attestation and Establishing Trustworthiness





TRAINING AND EXAM PREPARATION RESOURCES

You can supplement this course with a number of available resources to assist with both learning and exam preparation. Contact info@arcitura.com with any questions.



Certification Exam Prep Kit

A set of additional practice questions is available to support exam preparation.



Digital Course Files

For each course you can order a set of downloadable digital course materials comprised of printable, watermarked workbook and poster PDF files.



Printed Course Materials

The printed workbooks and posters for each course can be ordered in B&W and full-color, and can be shipped worldwide.



One-on-One Coaching —

Certified Trainers are available to provide online coaching on an hourly basis and in all time zones.



Instructor-Led Training

Certified Trainers are available to provide virtual and onsite training workshops for this and other Arcitura courses.

DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY



	COURSES	Digital Transformation	Digital Transformation: Fundamental Technology	Digital Transformation: Advanced Technology & Architecture	Digital Transformation: Fundamental Data Science	Digital Transformation: Advanced Data Science	Digital Transformation: Fundamental Security	Digital Transformation: Advanced Security	Digital Transformation: Fundamental Intelligent Automation	Digital Transformation: Advanced Intelligent Automation
CI	ERTIFICATIONS	Digital Transformation Specialist	Digital Transformation Technology Professional	Digital Transformation Technology Architect	Digital Transformation Data Science Professional	Digital Transformation Data Scientist	Digital Transformation Security Professional	Digital Transformation Security Specialist	Digital Transformation Intelligent Automation Professional	Digital Transformation Intelligent Automation Specialist
MODULE 01	Fundamental Digital Transformation	•	•	•	•	•	•	•	•	•
MODULE 02	Digital Transformation in Practice	•	•	•	•	•	•		•	
MODULE 03	Fundamental Cloud Computing		•	•						
MODULE 04	Fundamental Blockchain		•	•			•	•		
MODULE 05	Fundamental IoT		•	•						
MODULE 06	Cloud Architecture			•						
MODULE 07	Blockchain Architecture			•				•		
MODULE 08	IoT Architecture			•						
MODULE 09	Fundamental Big Data Analysis & Analytics				•	•				
MODULE 10	Fundamental Machine Learning				•	•				
MODULE 11	Fundamental AI				•	•				
MODULE 12	Advanced Big Data Analysis & Analytics					•				
MODULE 13	Advanced Machine Learning					•				
MODULE 14	Advanced Al					•				
MODULE 15	Fundamental Cybersecurity						•	•		
MODULE 16	Advanced Cybersecurity							•		
MODULE 17	Fundamental RPA								•	•
MODULE 18	Advanced RPA & Intelligent Automation									•
MODULE 19	Fundamental Al Decisioning								•	•
MODULE 20	Advanced Al Decisioning									•



NEXT-GEN IT ACADEMY



	1	COURSES	DevOps	Blockchain Architecture	loT Architecture	Cybersecurity	Robotic Process Automation	Digital Business Technology	Containerization Architecture	Quantum Computing
	CER	TIFICATIONS	DevOps Specialist	Blockchain Architect	loT Architect	Cybersecurity Specialist	RPA Specialist	Digital Business Technology Professional	Containerization Architect	Quantum Computing Specialist
	MODULE 01	Fundamental DevOps	•							
DevOps	MODULE 02	DevOps in Practice	•							
	MODULE 03	DevOps Lab	•							
	MODULE 01	Fundamental Blockchain		•						
lockchair	MODULE 02	Blockchain Technology & Architecture		•						
	MODULE 03	Blockchain Technology & Architecture Lab		•						
sbu	MODULE 01	Fundamental IoT			•					
rnet of Thi	MODULE 02	IoT Technology & Architecture			•					
Inte	MODULE 03	IoT Technology & Architecture Lab			•					
rity.	MODULE 01	Fundamental Cybersecurity				•				
rbersecur	MODULE 02	Advanced Cybersecurity				•				
G	MODULE 03	Cybersecurity Lab				•				
tomation	MODULE 01	Fundamental RPA					•			
rocess Au	MODULE 02	Advanced RPA & Intelligent Automation					•			
Robotic P	MODULE 03	RPA Lab					•			
chnology	MODULE 01	Business Automation Technology Overview						•		
usiness Tec	MODULE 02	Data Science Technology Overview						•		
Digital Bu	MODULE 03	Digital & Security Technology Overview						•		
tion	MODULE 01	Fundamental Containerization							•	
Containerization	MODULE 02	Containerization Technology & Architecture							•	
S	MODULE 03	Containerization Technology & Architecture Lab							•	
puting	MODULE 01	Fundamental Quantum Computing								•
tum Com	MODULE 02	Advanced Quantum Computing								•
Quan	MODULE 03	Quantum Computing Lab								•







NEXT-GEN DATA SCIENCE ACADEMY



	COURSES	Big Data Analytics & Fundamental Data Science	Big Data Analysis & Advanced Data Science	Data Science Professional Consulting	Machine Learning	Artificial Intelligence	Big Data Engineering	Big Data Architecture	Data Science Governance	AI Decisioning
CI	ERTIFICATIONS	Big Data Science Professional	Big Data Scientist	Data Science Consultant	Machine Learning Specialist	Artificial Intelligence Specialist	Big Data Engineer	Big Data Architect	Data Science Governance Specialist	AI Decisioning Specialist
MODULE 01	Fundamental Big Data Science & Analytics	•	•	•			•	•	•	•
MODULE 02	Big Data Analysis & Technology Concepts	•		•			•	•	•	
MODULE 03	Big Data Analysis & Technology Lab	•		•						
MODULE 04	Big Data Analysis & Science		•							
MODULE 05	Advanced Big Data Analysis & Science		•							
MODULE 06	Big Data Analysis & Science Lab		•							
MODULE 07	Fundamental Machine Learning			•	•					
MODULE 08	Advanced Machine Learning				•					
MODULE 09	Machine Learning Lab				•					
MODULE 10	Fundamental Artificial Intelligence			•		•				
MODULE 11	Advanced Artificial Intelligence					•				
MODULE 12	Artificial Intelligence Lab					•				
MODULE 13	Fundamental Big Data Engineering						•			
MODULE 14	Advanced Big Data Engineering						•			
MODULE 15	Big Data Engineering Lab						•			
MODULE 16	Fundamental Big Data Architecture							•		
MODULE 17	Advanced Big Data Architecture							•		
MODULE 18	Big Data Architecture Lab							•		
MODULE 19	Fundamental Data Science Governance for Big Data, Machine Learning & Al								•	
MODULE 20	Advanced Data Science Governance for Big Data, Machine Learning & Al								•	
MODULE 21	Data Science Governance Lab for Big Data, Machine Learning & Al								•	
MODULE 22	Fundamental Al Decisioning									•
MODULE 23	Advanced Al Decisioning									•
MODULE 24	Al Decisioning Lab									•



CLOUD SCHOOL



COURSES	Cloud Computing	Cloud Computing Professional Consulting	Cloud Architecture	Cloud Security	Cloud Governance	Cloud Storage	Cloud Virtualization
CERTIFICATIONS	Cloud Technology Professional	Cloud Computing Consultant	Cloud Architect	Cloud Security Specialist	Cloud Governance Specialist	Cloud Storage Specialist	Cloud Virtualization 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							•



SERVICE TECHNOLOGY SCHOOL



	COURSES	Fundamental Microservices & Service Technology	Fundamental SOA Design with Services & Microservices	SOA Analysis & Modeling with Services & Microservices	Architecture with Services &	Microservice Design & Architecture	Microservice Professional Consulting	Service API Design & Management	Service Governance & Project Delivery	Security for Microservices & SOA
CI	ERTIFICATIONS	Microservice Professional	SOA Professional	SOA Analyst	SOA Architect	Microservice Architect	Microservice Consultant	Service API Specialist	Service Governance Specialist	Service Security Specialist
MODULE 01	Fundamental SOA, Services & Microservices	•	•	•	•	•	•	•	•	•
MODULE 02	Microservice Technology Concepts	•			•	•		•		•
MODULE 03	Design & Architecture with SOA, Services & Microservices		•	•	•				•	
MODULE 04	Fundamental SOA Analysis & Modeling with Services & Microservices			•						
MODULE 05	Advanced SOA Analysis & Modeling with Services & Microservices			•						
MODULE 06	SOA Analysis & Modeling Lab with Services & Microservices			•						
MODULE 07	Advanced SOA Design & Architecture with Services & Microservices				•					
MODULE 08	SOA Design & Architecture Lab with 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									•









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