

Course Catalog & Certification Programs 2024





AI & CLOUD AI PROFESSIONAL ACADEMY

The AI & Cloud AI Professional Academy from Arcitura provides formal education and accreditation programs dedicated to contemporary AI technology and practices, including predictive AI, generative AI and cloud-based AI, as well as AI engineering and architecture.



DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY

The Digital Transformation Professional Academy from Arcitura provides formal education and accreditation programs dedicated to industry-standard Digital Transformation, including technology, architecture, data science, security and intelligent automation.



NEXT-GEN IT ACADEMY

The Next-Gen IT Academy from Arcitura provides formal education and accreditation programs focused on contemporary technologies and fields of practice, including:

- / Digital Business Technology
- / Robotic Process Automation (RPA)
- / Cybersecurity
- / Containerization
- / Internet of Things (IoT)
- / Blockchain
- / DevOps
- / Quantum Computing



NEXT-GEN DATA SCIENCE ACADEMY

The Next-Gen Data Science Academy from Arcitura provides formal education and accreditation programs dedicated to the fields of Artificial Intelligence, Machine Learning, Big Data and general Data Science, including analytics and analysis, decisioning, architecture, engineering and governance.



CLOUD COMPUTING SCHOOL

The Cloud Computing 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.



SERVICE TECHNOLOGY SCHOOL

The Service Technology School from Arcitura provides formal education and accreditation programs dedicated to the fields of Microservices, Service APIs and SOA, including analysis, modeling, design, architecture, security and governance.





TABLE OF CONTENTS

ABOUT THE ARCITURA CURRICULUM	04
SELF-STUDY WITH eLEARNING	05
INSTRUCTOR-LED TRAINING & COACHING	06
AI & CLOUD AI PROFESSIONAL ACADEMY	08
DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY	16
NEXT-GEN IT ACADEMY	24
NEXT-GEN DATA SCIENCE ACADEMY	32
CLOUD COMPUTING SCHOOL	40
SERVICE TECHNOLOGY SCHOOL	48
THE ARCITURA DIFFERENCE	56
EXAM PROCTORING	57
CERTIFICATION TRACKS	58
CURRICULUM MAPPING	64
WORK WITH US	66

ABOUT THE ARCITURA CURRICULUM

Arcitura

The Arcitura headquarters in Vancouver, Canada from 2012 until the COVID-19 pandemic. Since then, Arcitura staff collaborate remotely, geographically distributed over three continents.

Courses and Modules

- Arcitura's curriculum is comprised of over 50 courses and over 120 course modules.
- Every Arcitura course is comprised of multiple course modules.
- Every course has a track that indicates which modules it is comprised of and the order in which they should be completed.
- Each course corresponds to a certification.

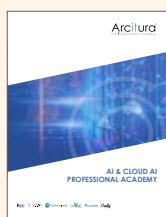


For each course, a separate Training & Certification Guide PDF is available for download on the course description page.

arcitura.com/courses

Programs, Tracks and Certifications

Arcitura's library of courses and modules is organized into the following programs:



AI & Cloud AI Professional Academy



Digital Transformation Professional Academy



Next-Gen IT Academy



Next-Gen Data Science Academy



Cloud Computing School



Service Technology School

Within each program, modules are organized into tracks. Each track corresponds to a professional certification. There are over 50 professional certifications, each of which can be attained by passing a certification exam. Certification exams can be taken worldwide.



Digital Certificates and Badges

- Upon completing a course via eLearning or an instructor-led workshop, you receive a digital Certificate of Completion and a digital Training Badge from Acclaim/Credly
- Upon attaining a certification, you also receive an official digital Accreditation Certificate and a digital Certification Badge from Acclaim/Credly.

arcitura.com/digital

SELF-STUDY WITH ELEARNING



arcitura.com/elearning

eLearning Made Easy

Helping you achieve success in your education and career goals is our top priority. At Arcitura, we understand that everyone has different requirements and preferences when it comes to self-study.



- All Arcitura courses are available for self-study via eLearning.
- Upon purchasing a course, you automatically receive access via an online interactive eLearning platform.
- To provide you with the greatest flexibility, you will be offered the option of also accessing the course materials via two additional eLearning formats.
- The additional eLearning formats are provided to you upon request and at no extra cost.

eLearning Formats



For Everyday Learning

An online interactive eLearning platform with individual lessons, as well as interactive and automatically graded exercises and practice questions.



For Learning On-the-Go

A study kit platform with access to full course documents that support online/offline synching, annotations, comments, custom bookmarks and cross-document searches.



For Your Reference

A set of printable PDF documents that you can keep (for all course workbooks and posters).

Each Arcitura eLearning course includes a self-test to help you assess your readiness to take a certification exam. Separate Exam Prep Kits are also available with additional online interactive practice questions that are automatically graded.

INSTRUCTOR-LED TRAINING & COACHING



Arcitura works closely with its network of authorized training partners to provide online and onsite instructor-led training workshops to organizations throughout the world, including many corporations, federal government agencies and numerous Fortune 500 organizations.

Arcitura and its partners have Certified Trainers and supporting staff that are highly experienced in the planning, delivery and management of private and public training events that can be tailored to your learning objectives and scheduling preferences.

Instructor-Led Services



Online Training

Training workshops for Arcitura courses can be delivered by Certified Trainers online via virtual classrooms.



Onsite Training

Training workshops for Arcitura courses can be delivered by Certified Trainers onsite at your location or at an external venue.



Online Coaching

Certified Trainers are available to provide virtual coaching services that can be scheduled on an hourly basis.

For Groups & Individuals



Workshops for Groups or Individuals

Training workshops can be delivered for small and large groups. Online training workshops can also be arranged for individuals.



Coaching for Groups or Individuals

Virtual coaching sessions can be arranged for groups and individuals to provide supplementary guidance and to assist with exam preparation.



Training Programs for Multiple Groups

Larger training programs involving multiple groups can be managed and coordinated and further supplemented with ongoing reporting.

Training Workshops & Optional Exams



Online Exam Proctoring

Exams can be taken online during or after a training workshop via Pearson VUE online proctoring and/or Arcitura direct online proctoring.



Onsite Exam Proctoring at Testing Center

Proctored exams can be taken in-person at Pearson VUE testing centers worldwide subsequent to workshop completion.



Onsite Exam Proctoring during Workshop

Paper-based exams can be taken during an onsite training workshop, either after each workshop day or subsequent to workshop completion.



Workshop Management Features & Benefits



Flexible Scheduling

Training workshop agendas can be tailored to your scheduling requirements.



Blended Learning Options

Blended learning models are supported to combine eLearning self-study with instructor-led training and/or virtual coaching.



Dedicated Workshop Monitors

For larger workshop groups, a dedicated monitor is assigned to facilitate the event in support of the instructor.



Multi-Platform Support

For online workshops, virtual classroom can be provided using a range of platforms, such as Zoom, WebEx and MS Teams.



Training Program Reporting

For groups and larger training programs, regular progress reporting can be provided.



External Venue Management

External venues, such as hotel conference rooms and schools, can be arranged to host onsite workshop events.

Workshop Provisioning Features & Benefits



Complimentary eLearning Accounts

Workshop participants can receive eLearning accounts with course materials, videos and many study resources.



Course Document PDFs for Participants to Keep

In addition to eLearning access, workshop participants can receive and keep printable PDF files of workshop course documents.



Optional Printed Course Materials

Onsite workshops can be provisioned with full-color printed course booklets and reference posters.



Complimentary Evaluation Courses

Workshop participants can receive free access to new courses that complement workshop course topics.



Complimentary Training Badges

Workshop participants can receive official digital training badges from Acclaim/Credly.



Complimentary Certificates of Completion

Workshop participants can receive official digital certificates of completion.





The AI & Cloud AI Professional Academy from Arcitura provides formal education and accreditation programs dedicated to contemporary AI technology and practices, including predictive AI, generative AI and cloud-based AI, as well as AI engineering and architecture. Exams are available worldwide via 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.

www.arcitura.com/ai

QUESTIONS?

Contact us at: info@arcitura.com



AI & CLOUD AI PROFESSIONAL ACADEMY

CERTIFICATIONS

Arcitura®
CERTIFIED
AI Professional



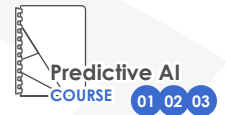
A Certified AI Professional has a proven understanding of the concepts, technologies and business applications of generative AI and predictive AI solutions, as well as related models and data training and management processes.



Arcitura®
CERTIFIED
Predictive AI Specialist



A Certified Predictive AI Specialist has gained a proven understanding of predictive AI practices and systems, including model training, learning techniques and neural networks.



Arcitura®
CERTIFIED
Generative AI Specialist



A Certified Generative AI Specialist understands the training, utilization and management of generative AI systems, as well as related algorithms and models.



Arcitura®
CERTIFIED
AI Engineer



A Certified AI Engineer has proven knowledge of AI systems design, neural network engineering and engineering practices associated with a broad range of predictive AI and generative AI models and networks.



Arcitura®
CERTIFIED
AI Architect



A Certified AI Architect has proven knowledge of predictive AI and generative AI systems technology architecture, implementation and infrastructure requirements, as well as integration techniques of both systems and supporting data management platforms.



Arcitura®
CERTIFIED
AI Consultant



A Certified AI Consultant has proven knowledge in the most important aspects of predictive AI and generative AI utilization, implementation and architecture.



Arcitura®
CERTIFIED
NLP Engineer



A Certified NLP Engineer has proven knowledge of natural language processing models and techniques, as well as a range of supporting applications, practices and models associated with establishing language and sentiment in conversational workflows.



Arcitura®
CERTIFIED
AI Governance & Ethics Specialist



A Certified AI Governance & Ethics Specialist has a proven understanding of governing predictive and generative AI systems throughout their lifecycles, with an emphasis on incorporating controls to ensure fairness, transparency and compliance.



Arcitura®
CERTIFIED
Cloud AI Professional



A Certified Cloud AI Professional has a proven understanding of cloud-based AI technology, infrastructure, automation and services, in support of model training, as well as AI system and data management.



Arcitura®
CERTIFIED
Cloud AI Architect



A Certified Cloud AI Architect has in-depth, proven knowledge of AI-specific cloud architectural models, design patterns and infrastructure to help realize the design, implementation and integration of enterprise- grade, cloud-based AI solutions.

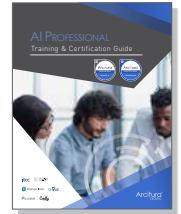




Essential AI Course

AI Professional Certification

The Essential AI course provides coverage of predictive AI and generative AI concepts, benefits, challenges and risks. Suitable for IT and business professionals that would like to receive a fundamental understanding of how contemporary AI works and how it can be applied in the real world. This course can be used to prepare for the AI Professional Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



Module 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



Predictive AI Course

Predictive AI Specialist Certification

The Predictive AI course provides essential coverage of predictive AI concepts, models and best practices. Common AI analysis and analytics practices are explored within a range of business scenarios, and in-depth coverage of predictive AI model training, learning and data filtering and processing techniques is provided. This course can be used to prepare for the Predictive AI Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



Module 02 | Advanced Predictive AI

Provides insight into how predictive AI systems work by exploring common techniques for learning, data processing and manipulation, and AI system performance management. The course module does not cover any mathematical formulas or programming and is intended for general IT professionals.



Module 03 | Predictive AI Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



Generative AI Course

Generative AI Specialist Certification

The Generative AI course provides essential coverage of generative AI concepts, models, best practices, and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. The course is focused on exploring the application of generative AI within a range of business scenarios. This course can be used to prepare for the Generative AI Specialist Certification exam.



Request this Guide



Module 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



Module 05 | Advanced Generative AI

Covers a range of common generative AI networks, models and techniques, including specialized neural networks and practices for managing and optimizing generative AI systems and model training processes. The course module does not cover any mathematical formulas or programming and is intended for general IT professionals.



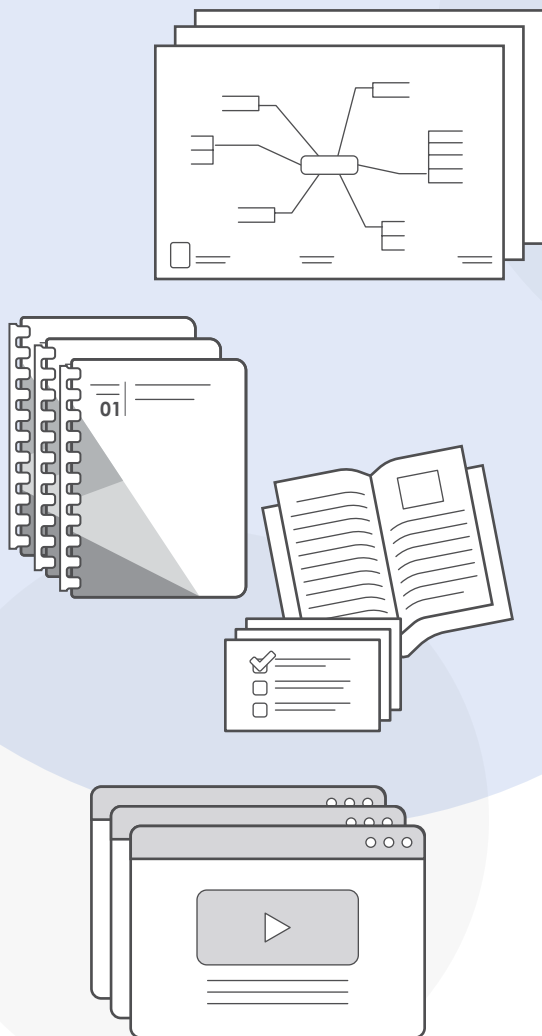
Module 06 | Generative AI Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



CONTINUED





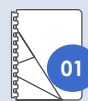
AI Engineering Course

AI Engineer Certification

The AI Engineering course covers a range of fundamental and advanced AI engineering topics, including a neural network design, data preprocessing and feature engineering, model evaluation, validation and scaling, as well as predictive and generative AI models, explainability techniques and transfer learning. This course can be used to prepare for the AI Engineer Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



Module 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



Module 07 | Fundamental AI Engineering

Delves into a range of AI engineering practices and techniques, and further provides a detailed introduction of neural network architecture components. The course module establishes a step-by-step process for assembling an AI system, thereby illustrating how and when different practices and components of AI systems with neural networks need to be defined and applied. Finally, the module provides a set of key principles and best practices for AI projects.



Module 08 | Advanced AI Engineering

Covers a series of practices for preparing and working with data for training and running contemporary AI systems and neural networks. It further provides techniques for designing and optimizing neural networks, including approaches for measuring and tuning neural network model performance. The practices and techniques can be applied individually or in different combinations to address a range of common AI system problems and requirements.



Module 09 | AI Engineering Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



AI Architecture & Design Course AI Architect Certification

The AI Architecture & Design course covers fundamental and advanced AI systems and technology architecture topics, including design principles, distributed AI computing and scalability and reliability infrastructure, decision-making logic, performance optimization, security and enterprise architecture integration. This course can be used to prepare for the AI Architect Certification exam.



Request this Guide



Module 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



Module 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



Module 10 | Fundamental AI Architecture

Covers core frameworks and technology architecture and infrastructure of predictive and generative AI system implementations. The module includes coverage of neural networks processing requirements and computational considerations pertaining to AI system model training and production processing, as well as AI system data flow and processing optimization and scalability.



Module 11 | Advanced AI Architecture

Provides an exploration of different AI system architecture designs and addresses complex topics such as hyperparameter tuning and advanced optimization strategies for large-scale neural networks. The module also covers the intricacies of transfer learning and multi-modal AI systems, as well as distributed computing, explainability and adversarial robustness in AI models.



Module 12 | AI Architecture Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



AI Professional Consulting Course AI Consultant Certification

The AI Professional Consulting course provides essential coverage of the most important and relevant topics associated with predictive AI, generative AI, as well as fundamental AI engineering and architecture. Also includes business case development techniques for AI projects and change management and AI adoption strategies. This course can be used to prepare for the AI Consultant Certification exam.



Request this Guide



Module 01 | Fundamental Predictive AI

Illustrates how predictive AI can be used and applied in a range of business applications, as well as essential coverage of predictive AI practices and systems. The module explores the most common learning approaches and functional areas that AI systems are used for. All of the content is authored in easy-to-understand, plain English.



Module 04 | Fundamental Generative AI

Explores the application of generative AI within a range of business scenarios and provides fundamental coverage of generative AI concepts, models, best practices and neural networks, including Generative Adversarial Networks (GANs), Variational Encoders (VAEs) and Transformer models. All of the content is authored in easy-to-understand, plain English.



Module 07 | Fundamental AI Engineering

Delves into a range of AI engineering practices and techniques, and further provides a detailed introduction of neural network architecture components. The course module establishes a step-by-step process for assembling an AI system, thereby illustrating how and when different practices and components of AI systems with neural networks need to be defined and applied. Finally, the module provides a set of key principles and best practices for AI projects.



Module 10 | Fundamental AI Architecture

Covers core frameworks and technology architecture and infrastructure of predictive and generative AI system implementations. The module includes coverage of neural networks processing requirements and computational considerations pertaining to AI system model training and production processing, as well as AI system data flow and processing optimization and scalability.

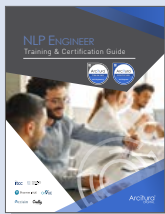


CONTINUED



NLP Engineering Course NLP Engineer Certification

The NLP Engineering course provides in-depth coverage of natural language processing, NLP linguistics, text preprocessing and normalization and semantic analysis techniques, as well as Transformer models, sentiment analysis and emotion detection, dialogue systems and machine translation and transliteration. This course can be used to prepare for the NLP Engineer Certification exam.



Request this Guide



Module 13 | Fundamental NLP Engineering

Begins with an exploration of how NLP solutions can be used by businesses, as well as common associated challenges and risks. The module then continues with covering essential topics, such as NLP text processing, tokenization, stemming and lemmatization, as well as linguistic data preparation, common NLP models and libraries, and addressing bias and fairness concerns.



Module 14 | Advanced NLP Engineering

Cover advanced topics, such as contextual embeddings, attention mechanisms, transformer models, as well as sequence-to-sequence models for tasks like summarization and translation. Also covered are methods for handling linguistic subtleties, sarcasm and ambiguity in natural language, and strategies to address challenges such as cross-lingual NLP and domain-specific language understanding.



Module 15 | NLP Engineering Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.



AI Governance & Ethics Course AI Governance & Ethics Specialist Certification

The AI Governance & Ethics course establishes the foundations of AI governance with precepts, processes and roles that address the on-going governance of predictive and generative AI systems. The governance of training and production data is covered, along with controls and considerations associated with ethical practice, model explainability and regulatory compliance. This course further extends AI governance practices and considerations in cloud-based environments. This course can be used to prepare for the AI Governance & Ethics Specialist Certification exam.



Request this Guide



Module 16 | Fundamental AI Governance & Ethics

Introduces the essential components of AI governance and explores the ethical considerations surrounding the usage and management of predictive and generative AI systems. Topics include fairness, transparency, privacy and accountability, as well as potential risks and biases within AI models. A vanilla governance framework is introduced, along with common precepts and processes for the governance of training data, production data, and cloud-based AI environments in addition to embedding ethical and responsible practices and monitoring agents into AI system designs.



Module 17 | Advanced AI Governance & Ethics

Delves deeper into predictive and generative AI governance frameworks by introducing common roles and additional processes for areas such as bias mitigation, explainability and long-term AI oversight. Additional topics addressed include aligning AI development with social values, responsible use and regulatory requirements, as well as advanced methods for data monitoring, management and filtering. Further cloud computing-related topics are included to address data privacy, regional data storage and other common data-related policies.



Module 18 | AI Governance & Ethics Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.

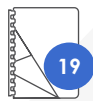


Cloud AI Fundamentals Course Cloud AI Professional Certification

The Cloud AI Fundamentals course provides essential coverage of concepts and technologies for cloud-based AI systems, including infrastructure resources for reliability and scaling, AI data management, AI system deployment models, using containerization with AI systems, cloud AI serverless architecture, as well as integration of AI services with cloud-native applications. This course can be used to prepare for the Cloud AI Professional Certification exam.

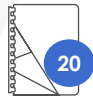


Request this Guide



Module 19 | Fundamental Cloud AI Technology & Automation

Focuses on cloud computing technology, infrastructure and practices specific to establishing and running cloudbased predictive AI and generative AI solutions. Topics include GPU and TPU for AI learning workloads, cloud-based AI services such as AWS SageMaker, Azure Machine Learning and Google AI Platform for model development, training and deployment, as well as mechanisms for scaling AI applications in the cloud, data storage and pipeline options.



Module 20 | Advanced Cloud AI Technology & Automation

Covers a range of advanced topics, including cloudbased AI model management, AI pipeline orchestration, optimization techniques, scaling and failover, MLOps, as well as multi-cloud and hybrid AI strategies. Also covered are cloud-based data pipeline services, including AWS Glue, Azure Data Factory and Google Dataflow.



Cloud AI Architecture Course Cloud AI Architect Certification

The Cloud AI Architecture course covers the technology architecture of cloud-based AI systems, including cloud automation and infrastructure relevant to AI processing, serverless architectural models for AI, AI system monitoring, logging and auditing, AI in multi-cloud and hybrid architectures, as well as AI-related cloud services and infrastructure models. This course can be used to prepare for the Cloud AI Architect Certification exam.



Request this Guide



Module 19 | Fundamental Cloud AI Technology & Automation

Focuses on cloud computing technology, infrastructure and practices specific to establishing and running cloudbased predictive AI and generative AI solutions. Topics include GPU and TPU for AI learning workloads, cloud-based AI services such as AWS SageMaker, Azure Machine Learning and Google AI Platform for model development, training and deployment, as well as mechanisms for scaling AI applications in the cloud, data storage and pipeline options.



Module 20 | Advanced Cloud AI Technology & Automation

Covers a range of advanced topics, including cloudbased AI model management, AI pipeline orchestration, optimization techniques, scaling and failover, MLOps, as well as multi-cloud and hybrid AI strategies. Also covered are cloud-based data pipeline services, including AWS Glue, Azure Data Factory and Google Dataflow.



Module 21 | Fundamental Cloud AI Architecture & Design

Explores cloud-based architectural models and design patterns specific to predictive AI and generative AI applications, including the selection and configuration of specialized cloud AI infrastructure, AI-optimized compute instances and network topologies for data-intensive workloads, as well as strategies for integrating AI services within existing cloud environments. Topics also include the utilization of containerization and multi-clouds, as well as scalability, failover and security considerations.



Module 22 | Advanced Cloud AI Architecture & Design

Delves into complex architectural models and design patterns, as well as deployment strategies and optimization techniques for AI solutions. Topics covered include designing for high availability and fault tolerance in AI applications, implementing sophisticated data streaming architectures for real-time AI analytics, as well as exploring the utilization of containerization and microservices for AI systems.



Module 23 | Cloud AI Architecture & Design Lab

Provides a series of case-study driven, lab-style exercises and problems that are designed to test your ability to apply your knowledge of topics covered in previous modules. Completing this lab helps reinforce understanding of preceding topics and further demonstrates how different practices and technologies can be applied together as part of greater solutions.





The Digital Transformation Professional Academy curriculum is comprised of 20 course modules and 9 certification tracks. This extensive program encompasses a number of specialized tracks for IT professionals, each of which addresses a specific skillset for a common profession associated with Digital Transformation projects. Fields of practice covered by the Digital Transformation Professional Academy curriculum include Digital Transformation technology, architecture, data science, security and intelligent automation.

Several of the certification tracks leverage course modules in other Arcitura programs. Exams are available worldwide via 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.

www.arcitura.com/dt

QUESTIONS?

Contact us at: info@arcitura.com



DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY

CERTIFICATIONS

Arcitura®
CERTIFIED
Digital Transformation
Specialist



A Certified Digital Transformation Specialist has an understanding of digital transformation as a formal field of practice, along with knowledge of associated impacts, processes, technologies and business models.

Digital Transformation
COURSE 01 02

Arcitura®
CERTIFIED
Digital Transformation
Technology Professional



A Certified Digital Transformation Technology Professional has essential knowledge of the core digital transformation technologies and further understands how these technologies can be positioned and utilized in relation to each other as part of greater digital solutions and enterprise environments.

**Digital Transformation:
Fundamental Technology**
COURSE 01 02 03 04 05

Arcitura®
CERTIFIED
Digital Transformation
Technology Architect



A Certified Digital Transformation Technology Architect has detailed knowledge of the technology architectures behind the core technologies essential to digital solutions and digital enterprises.

**Digital Transformation:
Advanced Technology & Architecture**
COURSE 01 02 03 04 05 06 07 08

Arcitura®
CERTIFIED
Digital Transformation
Data Science Professional



A Certified Digital Transformation Data Science Professional has an understanding of essential concepts, techniques and models associated with modern data science practices, including big data, machine learning and artificial intelligence.

**Digital Transformation:
Fundamental Data Science**
COURSE 01 02 09 10 11

Arcitura®
CERTIFIED
Digital Transformation
Data Scientist



A Certified Digital Transformation Data Scientist has detailed knowledge of modern data science analytics and analysis practices, including those associated with big data, machine learning and artificial intelligence, and further understands how these practices can be utilized as part of a digital enterprise.

**Digital Transformation:
Advanced Data Science**
COURSE 01 02 09 10 11 12 13 14

Arcitura®
CERTIFIED
Digital Transformation
Security Professional



A Certified Digital Transformation Security Professional has an understanding of technology cyber threats, contemporary cybersecurity and blockchain technologies, as well as modern security controls and counter-measures relevant to digital solution environments.

**Digital Transformation:
Fundamental Security**
COURSE 01 02 04 15

Arcitura®
CERTIFIED
Digital Transformation
Security Specialist



A Certified Digital Transformation Security Specialist has a detailed understanding of cybersecurity threats, countermeasures and practices, as well as knowledge of establishing controls for the protection of data and digital assets, including the use of blockchain immutable storage technology.

**Digital Transformation:
Advanced Security**
COURSE 01 02 04 07 15 16

Arcitura®
CERTIFIED
Digital Transformation
IA Professional



A Certified Digital Transformation IA Professional has knowledge of artificial intelligence (AI) techniques, practices and learning methods together with technologies, business automation models and integration options provided by robotic process automation (RPA).

**Digital Transformation:
Fundamental Intelligent Automation**
COURSE 01 02 11 17

Arcitura®
CERTIFIED
Digital Transformation
IA Specialist



A Certified Digital Transformation IA Specialist has an understanding of how to design intelligent automation solutions comprised of robotic process automation (RPA) and artificial intelligence (AI) systems.

**Digital Transformation:
Advanced Intelligent Automation**
COURSE 01 02 11 14 17 18



Digital Transformation Course

Digital Transformation Specialist Certification

The Digital Transformation course provides a clear understanding of Digital Transformation from both business and technical perspectives and further develop fundamental skills in Digital Transformation practices and technologies. This course can be used to prepare for the Digital Transformation Specialist Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Digital Transformation: Fundamental Technology Course

Digital Transformation Technology Professional Certification

The Digital Transformation: Fundamental Technology course provides essential coverage of primary Digital Transformation technologies and develop skills associated with their application. This course can be used to prepare for the Digital Transformation Technology Professional Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 03 | Fundamental Cloud Computing

Provides end-to-end coverage of fundamental Cloud Computing topics relevant to Digital Transformation, including an exploration of technology-related topics that pertain to contemporary Cloud Computing platforms.



Module 04 | Fundamental Blockchain

Provides a clear, end-to-end understanding of how Blockchain works. It breaks down Blockchain technology and architecture in easy-to-understand concepts, terms and building blocks. Industry drivers and impacts of Blockchain are explained, followed by plain English descriptions of each primary part of a Blockchain system and step-by-step descriptions of how these parts work together.



Module 05 | Fundamental IoT

Covers the essentials of the field of Internet of Things (IoT) from both business and technical aspects. Fundamental IoT use cases, concepts, models and technologies are covered in plain English, along with introductory coverage of IoT architecture and IoT messaging with REST, HTTP and CoAp.



Digital Transformation: Advanced Technology & Architecture Course

Digital Transformation Technology Architect Certification

The Digital Transformation: Advanced Technology & Architecture course drills-down into the technology architecture and inner workings of primary Digital Transformation technologies and develop skills associated with their application. This course can be used to prepare for the Digital Transformation Technology Architect Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 03 | Fundamental Cloud Computing

Provides end-to-end coverage of fundamental Cloud Computing topics relevant to Digital Transformation, including an exploration of technology-related topics that pertain to contemporary Cloud Computing platforms.



Module 04 | Fundamental Blockchain

Provides a clear, end-to-end understanding of how Blockchain works. It breaks down Blockchain technology and architecture in easy-to-understand concepts, terms and building blocks. Industry drivers and impacts of Blockchain are explained, followed by plain English descriptions of each primary part of a Blockchain system and step-by-step descriptions of how these parts work together.



Module 05 | Fundamental IoT

Covers the essentials of the field of Internet of Things (IoT) from both business and technical aspects. Fundamental IoT use cases, concepts, models and technologies are covered in plain English, along with introductory coverage of IoT architecture and IoT messaging with REST, HTTP and CoAp.



Module 06 | Cloud Architecture

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 that individually represent platform feature-sets, functions and/or artifacts, and are collectively applied to establish distinct technology architecture layers. Building upon these foundations, SaaS, PaaS and IaaS environments are further explored.



Module 07 | Blockchain Architecture

Delves into Blockchain technology architecture and the inner workings of blockchains by exploring a series of key design patterns, techniques and related architectural models, along with common technology mechanisms used to customize and optimize Blockchain application designs in support of fulfilling business requirements.



Module 08 | IoT Architecture

Provides a drill-down into key areas of IoT technology architecture and enabling technologies by breaking down IoT environments into individual building blocks via design patterns and associated implementation mechanisms. Layered architectural models are covered, along with design techniques and feature-sets covering the processing of telemetry data, positioning of control logic, performance optimization, as well as addressing scalability and reliability concerns.



CONTINUED





Digital Transformation: Fundamental Data Science Course

Digital Transformation Data Science Professional Certification —

The Digital Transformation: Fundamental Data Science course provides comprehensive coverage of contemporary data science and analysis practices and technology essential to Digital Transformation. This course can be used to prepare for the Digital Transformation Data Science Professional Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 09 | Fundamental Big Data Analysis & Analytics

Provides an overview of essential Big Data science topics and explores a range of the most relevant contemporary analysis practices, technologies and tools for Big Data environments. Topics include common analysis functions and features offered by Big Data solutions, as well as an exploration of the Big Data analysis lifecycle.



Module 10 | Fundamental Machine Learning

Provides an easy-to-understand overview of Machine Learning that explains how it works, what it can and cannot do and how it is commonly utilized in support of business goals. The module covers common algorithm types and further explains how Machine Learning systems work behind the scenes.



Module 11 | Fundamental AI

Provides essential coverage of Artificial Intelligence and neural networks in easy-to-understand, plain English. The course module provides concrete coverage of the primary parts of AI, including learning approaches, functional areas that AI systems are used for and a thorough introduction to neural networks, how they exist, how they work and how they can be used to process information. The module further establishes a step-by-step process for assembling an AI system.



Digital Transformation: Advanced Data Science Course

Digital Transformation Data Scientist Certification

The Digital Transformation: Advanced Data Science course delves into the practical application of contemporary data science techniques and algorithms. This course can be used to prepare for the Digital Transformation Data Scientist Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



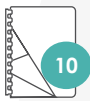
Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 09 | Fundamental Big Data Analysis & Analytics

Provides an overview of essential Big Data science topics and explores a range of the most relevant contemporary analysis practices, technologies and tools for Big Data environments. Topics include common analysis functions and features offered by Big Data solutions, as well as an exploration of the Big Data analysis lifecycle.



Module 10 | Fundamental Machine Learning

Provides an easy-to-understand overview of Machine Learning that explains how it works, what it can and cannot do and how it is commonly utilized in support of business goals. The module covers common algorithm types and further explains how Machine Learning systems work behind the scenes.



Module 11 | Fundamental AI

Provides essential coverage of Artificial Intelligence and neural networks in easy-to-understand, plain English. The course module provides concrete coverage of the primary parts of AI, including learning approaches, functional areas that AI systems are used for and a thorough introduction to neural networks, how they exist, how they work and how they can be used to process information. The module further establishes a step-by-step process for assembling an AI system.



Module 12 | Advanced Big Data Analysis & Analytics

Provides an in-depth overview of essential and advanced topic areas pertaining to data science and analysis techniques relevant and unique to Big Data with an emphasis on how analysis and analytics need to be carried out individually and collectively in support of the distinct characteristics, requirements and challenges associated with Big Data datasets.



Module 13 | Advanced Machine Learning

Delves into the many algorithms, methods and models of contemporary Machine Learning practices to explore how a range of different business problems can be solved by utilizing and combining proven Machine Learning techniques.



Module 14 | Advanced AI

Covers a series of practices for preparing and working with data for training and running contemporary AI systems and neural networks. It further provides techniques for designing and optimizing neural networks, including approaches for measuring and tuning neural network model performance.



CONTINUED



Digital Transformation: Fundamental Security Course

Digital Transformation Security Professional Certification

The Digital Transformation: Fundamental Security course provides in-depth coverage of security concepts, technologies and practices essential to Digital Transformation. This course can be used to prepare for the Digital Transformation Security Professional Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 04 | Fundamental Blockchain

Provides a clear, end-to-end understanding of how Blockchain works. It breaks down Blockchain technology and architecture in easy-to-understand concepts, terms and building blocks. Industry drivers and impacts of Blockchain are explained, followed by plain English descriptions of each primary part of a Blockchain system and step-by-step descriptions of how these parts work together.



Module 15 | Fundamental Cybersecurity

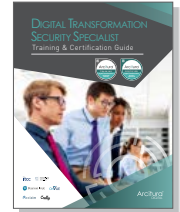
Covers essential topics for understanding and applying cybersecurity solutions and practices. The course begins by covering basic aspects of cybersecurity and then explains foundational parts of cybersecurity environments, such as frameworks, metrics and the relationship between cybersecurity and data science technology.



Digital Transformation: Advanced Security Course

Digital Transformation Security Specialist Certification

The Digital Transformation: Advanced Security course covers advanced Cybersecurity and Blockchain topics essential to building contemporary Digital Transformation solutions. This course can be used to prepare for the Digital Transformation Security Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 04 | Fundamental Blockchain

Provides a clear, end-to-end understanding of how Blockchain works. It breaks down Blockchain technology and architecture in easy-to-understand concepts, terms and building blocks. Industry drivers and impacts of Blockchain are explained, followed by plain English descriptions of each primary part of a Blockchain system and step-by-step descriptions of how these parts work together.



Module 07 | Blockchain Architecture

Delves into Blockchain Security architecture and the inner workings of blockchains by exploring a series of key design patterns, techniques and related architectural models, along with common Security mechanisms used to customize and optimize Blockchain application designs in support of fulfilling business requirements.



Module 15 | Fundamental Cybersecurity

Covers essential topics for understanding and applying cybersecurity solutions and practices. The course begins by covering basic aspects of cybersecurity and then explains foundational parts of cybersecurity environments, such as frameworks, metrics and the relationship between cybersecurity and data science technology.



Module 16 | Advanced Cybersecurity

Delves into the building blocks of cybersecurity solution environments and further explores the range of cyber threats that cybersecurity solutions can be designed to protect organizations from. The module establishes a set of cybersecurity technology mechanisms that represent the common components that comprise cybersecurity solutions and further explores formal processes and procedures used to establish sound practices that utilize the mechanisms.



Digital Transformation: Fundamental Intelligent Automation Course

Digital Transformation IA Professional Certification

The Digital Transformation: Fundamental Intelligent Automation course provides fundamental coverage of artificial intelligent (AI) and robotic process automation (RPA) concepts, technologies and practices associated with intelligent automation (IA). This course can be used to prepare for the Digital Transformation IA Professional Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 11 | Fundamental AI

Provides essential coverage of Artificial Intelligence and neural networks in easy-to-understand, plain English. The course module provides concrete coverage of the primary parts of AI, including learning approaches, functional areas that AI systems are used for and a thorough introduction to neural networks, how they exist, how they work and how they can be used to process information. The module further establishes a step-by-step process for assembling an AI system.



Module 17 | Fundamental RPA

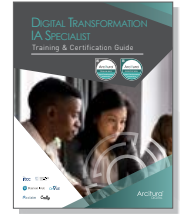
Establishes the components and models that comprise contemporary robotic process automation (RPA) environments. Different types of RPA bots are explained, along with different RPA architectures and bot utilization models. This course module further provides detailed scenarios that demonstrate different deployments of RPA bots and other components in relation to different business automation requirements.



Digital Transformation: Advanced Intelligent Automation Course

Digital Transformation IA Specialist Certification

The Digital Transformation: Advanced Intelligent Automation course covers advanced AI and RPA topics to explore the creation of integrated intelligent automation environments. This course can be used to prepare for the Digital Transformation IA Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Digital Transformation

Introduces Digital Transformation and provides detailed coverage of associated practices, models and technologies, along with coverage of Digital Transformation benefits, challenges and business and technology drivers. Also explained are common Digital Transformation domains, digital capabilities and adoption considerations.



Module 02 | Digital Transformation in Practice

Delves into the application of Digital Transformation by exploring a series of contemporary technologies associated with carrying out Digital Transformation projects and further demonstrating how the adoption of Digital Transformation practices and technologies can lead to business process improvements and optimization.



Module 11 | Fundamental AI

Provides essential coverage of Artificial Intelligence and neural networks in easy-to-understand, plain English. The course module provides concrete coverage of the primary parts of AI, including learning approaches, functional areas that AI systems are used for and a thorough introduction to neural networks, how they exist, how they work and how they can be used to process information. The module further establishes a step-by-step process for assembling an AI system.



Module 14 | Advanced AI

Covers a series of practices for preparing and working with data for training and running contemporary AI systems and neural networks. It further provides techniques for designing and optimizing neural networks, including approaches for measuring and tuning neural network model performance.



Module 17 | Fundamental RPA

Establishes the components and models that comprise contemporary robotic process automation (RPA) environments. Different types of RPA bots are explained, along with different RPA architectures and bot utilization models. This course module further provides detailed scenarios that demonstrate different deployments of RPA bots and other components in relation to different business automation requirements.



Module 18 | Advanced RPA & Intelligent Automation

Explores the relationship between RPA and AI and describes how these technologies can be combined to establish intelligence automation (IA) environments utilizing RPA bots and autonomous decision-making solutions using AI decisioning technology.





The Next-Gen IT Academy curriculum is comprised of 24 course modules and 8 certification tracks. For each topic area covered within the program, a set of 3 course modules is developed, along with a single exam. Exams are available worldwide via 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.

www.arcitura.com/it

QUESTIONS?

Contact us at: info@arcitura.com



NEXT-GEN IT ACADEMY

CERTIFICATIONS

Arcitura®
CERTIFIED
DevOps Specialist



A Certified DevOps Specialist understands the DevOps process stages, techniques and models to successfully apply DevOps in support of achieving project objectives and realizing business goals.



Arcitura®
CERTIFIED
Blockchain Architect



A Certified Blockchain Architect understands the concepts, models and technology architecture behind Blockchain solutions for both public and private use, including the utilization of immutable data storage and consensus processing.



Arcitura®
CERTIFIED
IoT Architect



A Certified IoT Architect has knowledge of the devices, technologies, and protocols used to build IoT solutions, and has gained an understanding of different IoT architecture layers and models, as well as associated technology mechanisms.



Arcitura®
CERTIFIED
Cybersecurity Specialist



A Certified Cybersecurity Specialist has an understanding of common cybersecurity threats, as well as the technologies and practices used to counter and prevent cyber-attacks, including the investigation of suspicious online activity and the hardening and protection of digital assets.



Arcitura®
CERTIFIED
RPA Specialist



A Certified RPA Specialist has an understanding of RPA bots, design practices and business automation models and further has knowledge of how RPA solutions can incorporate artificial intelligence systems to establish intelligent automation environments.



Arcitura®
CERTIFIED
Digital Business Technology Professional



A Certified Digital Business Technology Professional has an understanding of the purpose, benefits and challenges of contemporary digital business automation and data science technologies as they may relate to businesses pursuing their adoption.



Arcitura®
CERTIFIED
Containerization Architect



A Certified Containerization Architect has an understanding of containerization technology architecture, as well as the inner workings of containers, including the utilization of container engines, templates and management solutions.



Arcitura®
CERTIFIED
Quantum Computing Specialist



A Certified Quantum Computing Specialist has knowledge of concepts, architectural models and infrastructure components of quantum computing technology environments, as well as how they can be utilized to support business automation.





DevOps Course DevOps Specialist Certification

The DevOps course develops skills in DevOps practices, processes, metrics and models. This course can be used to prepare for the DevOps Specialist Certification exam.



[Request this Guide](#)



Module 01 | Fundamental DevOps

A comprehensive overview of DevOps practices, models and techniques, along with coverage of DevOps benefits, challenges and business and technology drivers. Also explained is how DevOps compares to traditional solution development and release approaches and how the application of DevOps can be monitored and measured for concrete business value.



Module 02 | DevOps in Practice

A course module that 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.



Module 03 | DevOps Lab

Provides a series of real-world exercises for applying DevOps practices and carrying out DevOps processes and related techniques to address requirements and solve problems.



Blockchain Architecture Course

Blockchain Architect Certification

The Blockchain Architecture course develops skills in Blockchain functions, architectural models, technology and security. This course can be used to prepare for the Blockchain Architect Certification exam.



Request this Guide



Module 01 | Fundamental Blockchain

Provides a clear, end-to-end understanding of how Blockchain works. It breaks down Blockchain technology and architecture in easy-to-understand concepts, terms and building blocks. Industry drivers and impacts of Blockchain are explained, followed by plain English descriptions of each primary part of a Blockchain system and step-by-step descriptions of how these parts work together.



Module 02 | Blockchain Technology & Architecture

Delves into Blockchain technology architecture and the inner workings of blockchains by exploring a series of key design patterns, techniques and related architectural models, along with common technology mechanisms used to customize and optimize Blockchain application designs in support of fulfilling business requirements.



Module 03 | Blockchain Technology & Architecture Lab

Provides a series of exercises for applying and combining Blockchain technologies, mechanisms and security controls to solve real-world problems.



IoT Architecture Course

IoT Architect Certification

The IoT Architecture course develops skills in Internet of Things (IoT) technology and architecture, along with proficiency in radio protocols, telemetry messaging and IoT architecture layers. This course can be used to prepare for the IoT Architect Certification exam.



Request this Guide



Module 01 | Fundamental IoT

Covers the essentials of the field of Internet of Things (IoT) from both business and technical aspects. Fundamental IoT use cases, concepts, models and technologies are covered in plain English, along with introductory coverage of IoT architecture and IoT messaging with REST, HTTP and CoAp.



Module 02 | IoT Technology & Architecture

Provides a drill-down into key areas of IoT technology architecture and enabling technologies by breaking down IoT environments into individual building blocks via design patterns and associated implementation mechanisms. Layered architectural models are covered, along with design techniques and feature-sets covering the processing of telemetry data, positioning of control logic, performance optimization, as well as addressing scalability and reliability concerns.



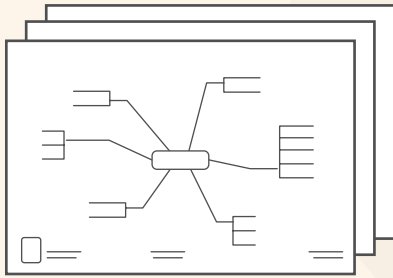
Module 03 | IoT Technology & Architecture Lab

Provides a series of exercises for applying and combining IoT concepts, technologies, architecture models and devices to solve real-world problems.



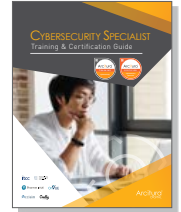
CONTINUED





Cybersecurity Course Cybersecurity Specialist Certification

The Cybersecurity course develops an understanding of common cyber security threats and vulnerabilities and further develop skills in the technologies and practices used to prevent and counter cyber-attacks. This course can be used to prepare for the Cybersecurity Specialist Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Cybersecurity

Covers essential topics for understanding and applying cybersecurity solutions and practices. The module begins by covering basic aspects of cybersecurity and then explains foundational parts of cybersecurity environments, such as frameworks, metrics and the relationship between cybersecurity and data science technology.



Module 02 | Advanced Cybersecurity

Delves into the building blocks of cybersecurity solution environments and further explores the range of cyber threats that cybersecurity solutions can be designed to protect organizations from. The module establishes a set of cybersecurity technology mechanisms that represent the common components that comprise cybersecurity solutions and further explores formal processes and procedures used to establish sound practices that utilize the mechanisms.



Module 03 | Cybersecurity Lab

Provides a series of exercises for applying and combining Cybersecurity technologies and practices to solve real-world problems.



Robotic Process Automation (RPA) Course

RPA Specialist Certification

The Robotic Process Automation (RPA) course develops skills in RPA technologies, practices and business process automation models. This course can be used to prepare for the RPA Specialist Certification exam.



Request this Guide



Module 01 | Fundamental RPA

Establishes the components and models that comprise contemporary robotic process automation (RPA) environments. Different types of RPA bots are explained, along with different RPA architectures and bot utilization models. This course module further provides detailed scenarios that demonstrate different deployments of RPA bots and other components in relation to different business automation requirements.



Module 02 | Advanced RPA & Intelligent Automation

Explores the relationship between RPA and AI and describes how these technologies can be combined to establish intelligence automation (IA) environments utilizing RPA bots and autonomous decision-making solutions using AI decisioning technology.



Module 03 | RPA Lab

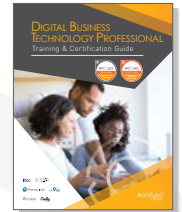
Provides a series of real-world exercises for applying and combining RPA models and practices to build RPA solutions for common usage scenarios.



Digital Business Technology Course

Digital Business Technology Professional Certification

The Digital Business Technology course provides easy-to-understand, fundamental coverage of a broad range of contemporary IT technologies and associated IT practices. Coverage is intentionally non-technical and limited to explaining the strategic purpose and significance of each technology as it may relate to an organization's business operations. Topics include Digital Transformation Solutions, Artificial Intelligence (AI), Robotic Process Automation (RPA), Cloud Computing, Blockchain, Internet of Things (IoT), Machine Learning, Big Data and Cybersecurity. This course can be used to prepare for the Digital Business Technology Professional Certification exam.



Request this Guide



Module 01 | Business Automation Technology Overview

Provides introductory, non-technical coverage of Cloud Computing, Robotic Process Automation (RPA) and the Internet of Things (IoT) with an emphasis on the drivers, benefits, goals, risks and challenges of these technologies.



Module 02 | Data Science Technology Overview

Provides introductory, non-technical coverage of Big Data, Machine Learning and Artificial Intelligence (AI) with an emphasis on the drivers, benefits, goals, risks and challenges of these technologies.



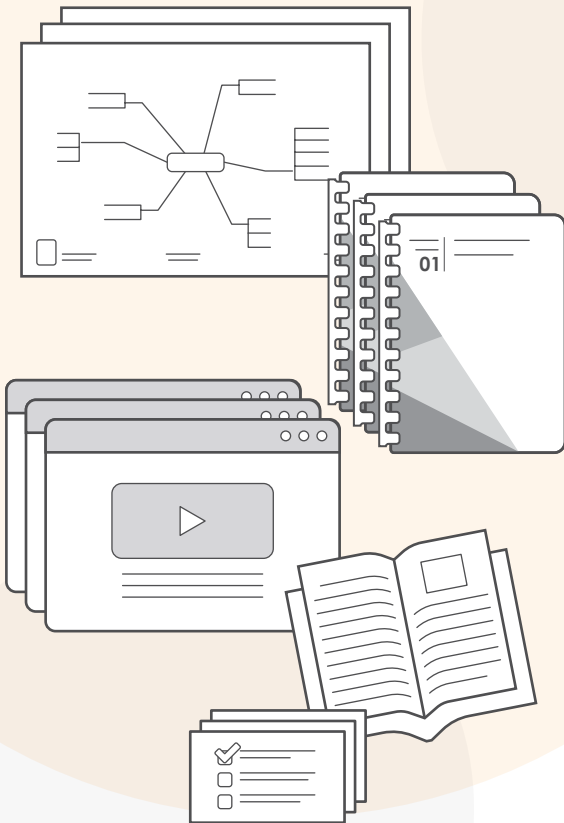
Module 03 | Digital & Security Technology Overview

Provides introductory, non-technical coverage of Digital Transformation, Blockchain and Cybersecurity with an emphasis on the drivers, benefits, goals, risks and challenges of these technologies.



CONTINUED





Containerization Architecture Course Containerization Architect Certification

The Containerization Architecture course develops skills in containerization technology and architecture, along with proficiency in assessing, designing and securing highly available container-hosted services and solutions. This course can be used to prepare for the Containerization Architect Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Containerization

Provides comprehensive coverage of Containerization models, technologies, mechanisms and environments. How the utilization of containers impacts both the technology and business of an organization is covered, along with many technical features, characteristics and deployment environments.



Module 02 | Containerization Technology & Architecture

Provides a deep-dive into Containerization architectures, hosting models, deployment models and utilization by services and applications. Numerous advanced topics are covered, including high performance requirements, clustering, security and lifecycle management.



Module 03 | Containerization Technology & Architecture Lab

Provides a series of exercises for applying and combining Containerization concepts, technologies, architecture models to solve real-world problems.



Quantum Computing Course

Quantum Computing Specialist Certification

The Quantum Computing course provides comprehensive coverage the concepts, technology models and infrastructure components that comprise contemporary quantum computing solutions, as well as guidance for how to utilize these solutions in IT enterprise environments. This course can be used to prepare for the Quantum Computing Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Quantum Computing

Covers basic concepts, terminology and models associated with quantum computing, as well as the common benefits, challenges and drivers of utilizing quantum computing in the real world. Topics include quantum physics, quantum states and information theory, as well as qubits, quantum gates, quantum storage and data paths.



Module 02 | Advanced Quantum Computing

Delves into additional quantum computing practices and infrastructure to establish insight into how quantum computing technology and practices can be applied in the real world and integrated with business automation solutions. Topics data teleportation, quantum error correction, linear ion trap, high Q optical cavity, nuclear magnetic resonance, quantum memory refresh units and parallelism.



Module 03 | Quantum Computing Lab

Provides a series of real-world exercises for applying and combining technologies and models associated with assembling quantum computing solutions for common usage scenarios.





The Next-Gen Data Science Academy curriculum is comprised of 19 course modules and 9 certification tracks. Exams are available worldwide via 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.

www.arcitura.com/ds

QUESTIONS?

Contact us at: info@arcitura.com



NEXT-GEN DATA SCIENCE ACADEMY

CERTIFICATIONS

Arcitura®
CERTIFIED
Big Data Professional



A Certified Big Data Professional has a proven understanding of Big Data concepts and technologies, and has further demonstrated proficiency in fundamental areas of Big Data, including analysis, analytics, models and practices.



Arcitura®
CERTIFIED
Big Data Science Professional



A Certified Big Data Science Professional has knowledge of fundamental data science and Big Data concepts and models, as well as an understanding of Big Data analysis, analytics and mechanisms.



Arcitura®
CERTIFIED
Big Data Scientist



A Certified Big Data Scientist has knowledge of a range of analysis and analytics techniques, as well as the processes required for processing large volumes of complex data to drive decision-making.



Arcitura®
CERTIFIED
Big Data Consultant



A Certified Big Data Consultant has demonstrated proficiency across a range of key Big Data topics, with a particular focus on Big Data analytics and analysis techniques, as well data processing and storage.



Arcitura®
CERTIFIED
Data Science Consultant



A Certified Data Science Consultant has knowledge of a cross-section of contemporary data science-related fields of practice, including big data analytics, machine learning and artificial intelligence so as to provide guidance and advisory services.



Arcitura®
CERTIFIED
Machine Learning Specialist



A Certified Machine Learning Specialist understands how and where machine learning techniques are best utilized to produce business value, and has knowledge of associated algorithms and system designs, as well as advanced model learning approaches and analysis practices.



Arcitura®
CERTIFIED
Big Data Engineer



A Certified Big Data Engineer has knowledge of designing and integrating Big Data platforms and solutions, with an emphasis on the mechanisms used to enable data processing, data storage and the utilization of Big Data pipelines.



Arcitura®
CERTIFIED
Big Data Architect



A Certified Big Data Architect has knowledge of Big Data platform technology architecture and Big Data application architecture within IT enterprise and cloud-based environments.



Arcitura®
CERTIFIED
Data Science Governance Specialist



A Certified Data Science Governance Specialist has an understanding of governance frameworks and controls to standardize and regulate the lifecycles, pipelines and platforms pertaining to data analysis and processing practices used in machine learning, AI and big data.





Essential Big Data & Data Science Course

Big Data Professional Certification

The Essential Big Data & Data Science course provides comprehensive coverage of data science and big data fundamentals, as well as introductory coverage of big data analytics. This course can be used to prepare for the Big Data Professional Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



NEXT-GEN DATA SCIENCE ACADEMY

CURRICULUM

Big Data Analytics & Fundamental Data Science Course

Big Data Science Professional Certification

The Big Data Analytics & Fundamental Data Science course develops skills in Big Data analytics and analysis, as well as data science fundamentals. This course can be used to prepare for the Big Data Science Professional Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 03 | Big Data Analysis & Technology Lab

Provides a series of real-world exercises for assessing and establishing Big Data environments, and for solving problems using common Big Data analysis techniques.



Big Data Analysis & Advanced Data Science Course

Big Data Scientist Certification

The Big Data Analysis & Advanced Data Science course provides comprehensive coverage of contemporary Big Data analysis and analytics practices and advanced data science techniques and processes. This course can be used to prepare for the Big Data Scientist Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 04 | Big Data Analysis & Science

Provides comprehensive coverage of Big Data analysis algorithms, analytics, data mining and statistical techniques, as well as exploratory data analysis, confirmatory data analysis, visualization and predictions.



Module 05 | Advanced Big Data Analysis & Science

Covers the application of a range of essential and advanced analysis techniques, including modeling and model evaluation, data reduction, classification, pattern identification, time series analysis, text analytics and outlier detection.



Module 06 | Big Data Analysis & Science Lab

Provides a series of real-world exercises for applying Big Data analysis and analytics techniques to fulfill business requirements and solve complex problems.



CONTINUED





Big Data Professional Consulting Course Big Data Consultant Certification

The Big Data Professional Consulting course provides comprehensive coverage of contemporary Big Data analysis and analytics practices and advanced data science techniques and processes. This course can be used to prepare for the Big Data Consultant Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 03 | Big Data Analysis & Technology Lab

Provides a series of real-world exercises for assessing and establishing Big Data environments, and for solving problems using common Big Data analysis techniques.



Module 04 | Big Data Analysis & Science

Provides comprehensive coverage of Big Data analysis algorithms, analytics, data mining and statistical techniques, as well as exploratory data analysis, confirmatory data analysis, visualization and predictions.



Module 11 | Fundamental Big Data Engineering

Explores on the usage and application of the Hadoop and MapReduce frameworks, as well as a range of Big Data engineering techniques and technologies. Coverage includes Big Data storage models, NoSQL and NewSQL, as well as Big Data processing engines.



Data Science Professional Consulting Course Data Science Consultant Certification

The Data Science Professional Consulting course provides comprehensive coverage of contemporary Big Data analysis and analytics practices and advanced data science techniques and processes. This course can be used to prepare for the Data Science Consultant Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 03 | Big Data Analysis & Technology Lab

Provides a series of real-world exercises for assessing and establishing Big Data environments, and for solving problems using common Big Data analysis techniques.



Module 07 | Fundamental Machine Learning

Provides an easy-to-understand overview of Machine Learning that explains how it works, what it can and cannot do and how it is commonly utilized in support of business goals. The module covers common algorithm types and further explains how Machine Learning systems work behind the scenes.



Module 10 | Fundamental Predictive & Generative Artificial Intelligence (AI)

Covers the fundamentals of predictive AI and generative AI, by providing essential coverage of benefits, challenges, concepts and common practices. All of the content is authored in easy-to-understand, plain English.



Machine Learning Course Machine Learning Specialist Certification

The Machine Learning course develops skills in Machine Learning practices, models and algorithms, as well as Machine Learning systems that can perform a range of data analysis processing tasks. This course can be used to prepare for the Machine Learning Specialist Certification exam.



Request this Guide



Module 07 | Fundamental Machine Learning

Provides an easy-to-understand overview of Machine Learning that explains how it works, what it can and cannot do and how it is commonly utilized in support of business goals. The module covers common algorithm types and further explains how Machine Learning systems work behind the scenes.



Module 08 | Advanced Machine Learning

Delves into the many algorithms, methods and models of contemporary Machine Learning practices to explore how a range of different business problems can be solved by utilizing and combining proven Machine Learning techniques.



Module 09 | Machine Learning Lab

Provides a series of exercises for applying Machine Learning systems and techniques, as they are applied and combined to solve real-world problems.



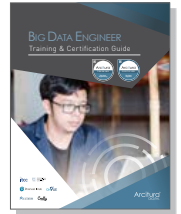
CONTINUED





Big Data Engineering Course Big Data Engineer Certification

The Big Data Engineering course covers essential practices for designing, configuring and utilizing Big Data solutions, including Big Data storage environments, pipelines and data processing. This course can be used to prepare for the Big Data Engineer Certification exam.



[Request this Guide](#)



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 11 | Fundamental Big Data Engineering

Explores on the usage and application of the Hadoop and MapReduce frameworks, as well as a range of Big Data engineering techniques and technologies. Coverage includes Big Data storage models, NoSQL and NewSQL, as well as Big Data processing engines.



Module 12 | Advanced Big Data Engineering

Delves into advanced engineering topics pertaining primarily to the storage and processing of Big Data datasets. The module covers advanced Big Data engineering mechanisms, in-memory data storage and realtime data processing, as well as MapReduce algorithms, bulk synchronous parallel processing and graph data processing.



Module 13 | Big Data Engineering Lab

Provides a series of real-world exercises for designing Big Data algorithms, Big Data processing and Big Data storage environments.



Big Data Architecture Course Big Data Architect Certification

The Big Data Architecture course provides comprehensive coverage of design techniques, technology architecture models and patterns associated with building and integrating Big Data solutions within enterprise environments. This course can be used to prepare for the Big Data Architect Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 14 | Fundamental Big Data Architecture

Provides coverage of the Hadoop stack, data pipelines and Big Data technology architecture layers, mechanisms and components, as well as associated design patterns for building and integrating Big Data solutions.



Module 15 | Advanced Big Data Architecture

Provides a drill-down of Big Data solution environments, architectural models and layers, and additional advanced design patterns. Also covered are cloud-based implementations and enterprise integration considerations, as well as topics pertaining to storage, processing and security.



Module 16 | Big Data Architecture Lab

Provides a series of real-world exercises for building and integrating Big Data solutions within IT enterprises and cloud-based environments.



Data Science Governance Course

Data Science Governance Specialist Certification

The Data Science Governance course develops knowledge and skills of Data Science Governance precepts, processes and roles that pertain to machine learning, artificial intelligence (AI) and big data solutions and processing environments. This course can be used to prepare for the Data Science Governance Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Big Data Science & Analytics

This foundational module establishes a basic understanding of fundamental data science, and explains Big Data from business and technology perspectives, including common concepts, models, benefits, challenges and adoption issues.



Module 02 | Big Data Analysis & Technology Concepts

Explores contemporary data analysis practices, technologies and tools for Big Data environments at a conceptual level, focusing on common analysis approaches, functions and features of Big Data solutions. Also covered is the Big Data Analysis Lifecycle.



Module 17 | Fundamental Data Science Governance

Describes data science governance concepts and basics and identifies common risks and challenges, as well as key roles for those involved in governance projects. The course module further explores the analytics pipeline governance lifecycle and establishes over 70 data science governance precepts and processes. The module maps how precepts and processes relate to each other and how they relate to governance stages.



Module 18 | Advanced Data Science Governance

In this course module, over 80 additional data science governance precepts and processes are described in relation to analytics platform governance and machine learning and AI pipeline governance stages. Relevant roles are also mapped to individual governance stages.



Module 19 | Data Science Governance Lab

Provides a series of real-world exercises for fostering a comprehensive understanding of how different data science governance precepts and processes can be applied to address common governance concerns.





The Cloud Computing School curriculum is comprised of 18 course modules and 8 certification tracks. Exams are available worldwide via 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.

www.arcitura.com/cc

QUESTIONS?

Contact us at: info@arcitura.com



CLOUD COMPUTING SCHOOL

CERTIFICATIONS

Arcitura®
CERTIFIED
Cloud Professional



A Certified Cloud Professional has a proven understanding of cloud computing concepts, models and business considerations, and has further demonstrated proficiency in fundamental technology and security-related areas of cloud computing.



Arcitura®
CERTIFIED
Cloud Technology Professional



A Certified Cloud Technology Professional has an understanding of cloud computing concepts, mechanisms and security considerations, and has knowledge of the technologies and building blocks used to assemble and evolve cloud platforms and solutions.



Arcitura®
CERTIFIED
Cloud Computing Consultant



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.



Arcitura®
CERTIFIED
Cloud Architect



A Certified Cloud Architect has an understanding of cloud computing technology and application architecture, and has knowledge of engineering practices used to build and evolve cloud environments.



Arcitura®
CERTIFIED
Cloud Security Specialist



A Certified Cloud Security Specialist has detailed knowledge of common security threats, security controls and associated technologies, and has knowledge of practices related to securing cloud platforms, cloud services and cloud-based infrastructure.



Arcitura®
CERTIFIED
Cloud Governance Specialist



A Certified Cloud Governance Specialist understands how to define, establish and evolve governance controls and frameworks specifically for cloud computing environments and solutions.



Arcitura®
CERTIFIED
Cloud Storage Specialist



A Certified Cloud Storage Specialist has a detailed understanding of cloud storage mechanisms, devices and technologies, and has knowledge of the practices pertaining to the design and integration of cloud storage components and services.



Arcitura®
CERTIFIED
Cloud Virtualization Specialist



A Certified Cloud Virtualization Specialist has a detailed understanding of cloud virtualization technologies and mechanisms, as well as knowledge of the cloud virtualization technology architecture.



Essential Cloud Computing Course Cloud Professional Certification

The Essential Cloud Computing course provides introductory coverage of Cloud Computing concepts, models and common cloud environments, from business and technology perspectives. This course can be used to prepare for the Cloud Professional Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



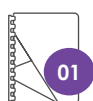
Cloud Computing Concepts & Technology Course

Cloud Technology Professional Certification

The Cloud Computing course develops knowledge and skills in Cloud Computing concepts, industry technologies, mechanisms and cloud delivery and deployment models. Also covered are business metrics, SLAs and topics pertaining to cloud security. This course can be used to prepare for the Cloud Technology Professional Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 03 | Cloud Technology Lab

Provides a series of real-world exercises for utilizing cloud mechanisms and technologies to assemble cloud-based solutions in order to fulfill business automation requirements.



Cloud Computing Professional Consulting Course

Cloud Computing Consultant Certification

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. This course can be used to prepare for the Cloud Computing Consultant Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 03 | Cloud Technology Lab

Provides a series of real-world exercises for utilizing cloud mechanisms and technologies to assemble cloud-based solutions in order to fulfill business automation requirements.



Module 04 | Fundamental Cloud Architecture

Delves into the technology architecture of cloud platforms and cloud-based solutions and services by exploring a series of new cloud computing mechanisms and their utilization via cloud computing design patterns that encompass architectural models, design techniques and the incorporation of containerization.



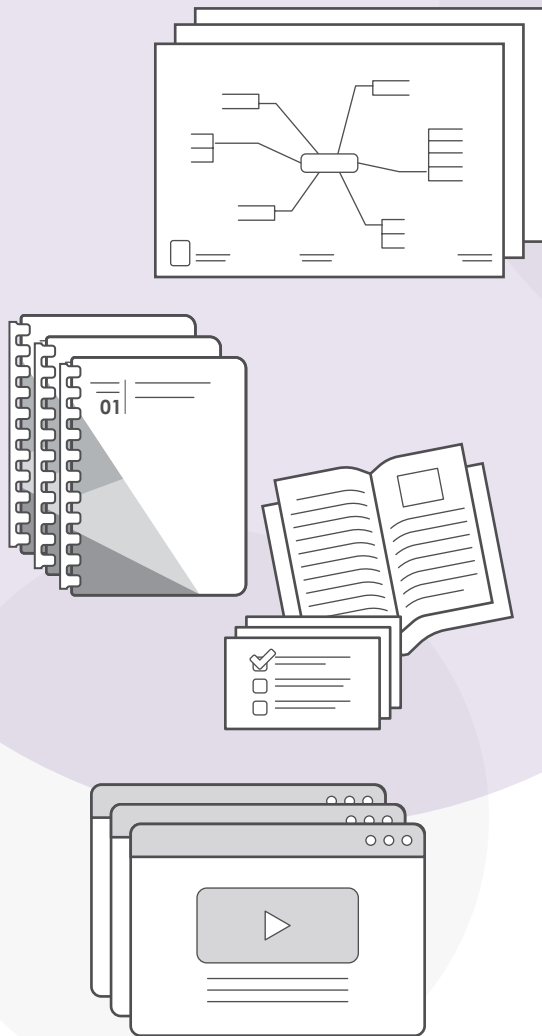
Module 07 | Fundamental Cloud Security

Dives into the implementation technologies behind the cloud security mechanisms and further explores how cloud-based security technologies can be configured and combined to establish a cloud security architecture.



CONTINUED





Cloud Architecture Course Cloud Architect Certification

The Cloud Architecture course provides comprehensive coverage of design techniques, technology architecture models, design patterns and mechanisms associated with building cloud-based environments and solutions. This course can be used to prepare for the Cloud Architect Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 04 | Fundamental Cloud Architecture

Delves into the technology architecture of cloud platforms and cloud-based solutions and services by exploring a series of new cloud computing mechanisms and their utilization via cloud computing design patterns that encompass architectural models, design techniques and the incorporation of containerization.



Module 05 | Advanced Cloud Architecture

Advanced technology architecture topics are addressed, with a focus on complex cloud-based solution design, including the incorporation of hybrid cloud deployment models, compound design patterns, containerization and solution architectures that span cloud and on-premise environments.



Module 06 | Cloud Architecture Lab

Provides a series of real-world exercises for applying technology architecture models and design techniques for a range of cloud usage scenarios.



Cloud Security Course

Cloud Security Specialist Certification

The Cloud Security course provides comprehensive coverage of security controls, mechanisms and architecture models, as well as techniques and practices for responding to security threats. This course can be used to prepare for the Cloud Security Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 07 | Fundamental Cloud Security

Dives into the implementation technologies behind the cloud security mechanisms and further explores how cloud-based security technologies can be configured and combined to establish a cloud security architecture.



Module 08 | Advanced Cloud Security

Complex security topics are covered with an emphasis on the application of cloud security mechanisms, models and technologies in order to establish sophisticated, custom security controls for preventative and reactionary responses to common threats and attacks.



Module 09 | Cloud Security Lab

Provides a series of exercises for applying security techniques and mechanisms to complete a series of exercises that present real-world security problems.



Cloud Governance Course

Cloud Governance Specialist Certification

The Cloud Governance course provides comprehensive coverage of precepts, processes and roles that pertain to the governance of cloud-based environments, resources and solutions and that further develop skills in establishing a custom cloud governance framework. This course can be used to prepare for the Cloud Governance Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 10 | Fundamental Cloud Governance

Covers the essential building blocks required to establish a governance system for cloud environments. Topics include the definition of cloud governance precepts, roles, practices and processes, along with coverage of common governance challenges and pitfalls specific to cloud computing.



Module 11 | Advanced Cloud Governance

Advanced cloud governance topics are covered to focus on establishing regulatory controls and precepts for a range of cloud-based IT resources and solutions in relation to different cloud project delivery stages.



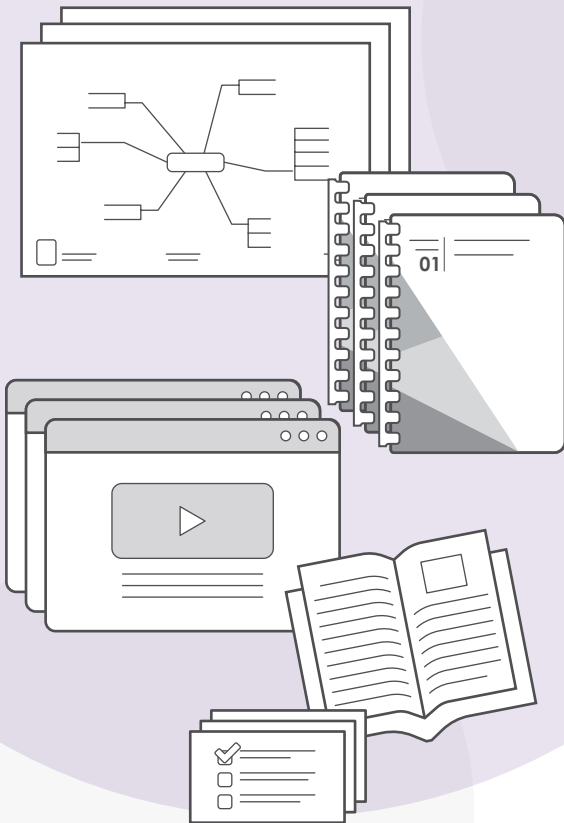
Module 12 | Cloud Governance Lab

Provides a series of exercises for applying cloud governance framework components, models, precepts and processes to complete a series of real-world exercises.



CONTINUED





Cloud Storage Course

Cloud Storage Specialist Certification

The Cloud Storage course covers cloud storage devices and mechanisms, as well as cloud storage architectures and solutions. This course can be used to prepare for the Cloud Storage Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 13 | Fundamental Cloud Storage

Explores cloud storage devices, structures and technologies from an implementation-specific perspective, including cloud storage mechanisms and devices, along with in-depth coverage of NoSQL and cloud storage services.



Module 14 | Advanced Cloud Storage

A number of advanced topics are covered, including persistent, redundant, cloud-attached and cloud-remote storage, as well as cloud storage gateways, cloud storage brokers, DAS, NAS, SAN, various cloud storage-related design patterns and information lifecycle management as it applies to cloud-hosted data.



Module 15 | Cloud Storage Lab

Provides a series of real-world exercises for applying design practices and utilizing cloud storage devices and mechanisms to complete a series of exercises that pertain to solving cloud storage problems and creating cloud storage architectures.



Cloud Virtualization Course

Cloud Virtualization Specialist Certification

The Cloud Virtualization course covers industry virtualization technology models and mechanisms for building cloud-based virtualization environments and solutions. This course can be used to prepare for the Cloud Virtualization Specialist Certification exam.



Request this Guide



Module 01 | Fundamental Cloud Computing

Introduces concepts, terminology, technologies, benefits and challenges associated with Cloud Computing, as well as SLAs and business cost metrics for cloud-based environments. SaaS, PaaS and IaaS delivery models are explained, along with common cloud deployment models and cloud characteristics.



Module 02 | Cloud Technology Concepts

Covers a range of topics related to Cloud Computing mechanisms, containerization, cloud security threats and controls and essential cloud technologies. Also addressed are testing, cloud storage, industry standards and emerging cloud technologies and trends.



Module 16 | Fundamental Cloud Virtualization

Core topic areas pertaining to fundamental virtualization mechanisms and types used within contemporary cloud computing platforms are explored, along with various key performance indicators and related metrics.



Module 17 | Advanced Cloud Virtualization

A range of specialized and advanced design practices and architecture models are provided to explore virtualization-related reliability, performance and integration. Combinations of virtualization mechanisms are covered in different application scenarios.



Module 18 | Cloud Virtualization Lab

Provides a series of exercises for applying cloud virtualization technology architectures and mechanisms to complete a series of real-world exercises.





The Service Technology School curriculum is comprised of 20 course modules and 9 certification tracks. Exams are available worldwide via 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.

www.arcitura.com/st

QUESTIONS?

Contact us at: info@arcitura.com



SERVICE TECHNOLOGY SCHOOL

CERTIFICATIONS

Arcitura®
CERTIFIED
Microservice
Professional



A Certified Microservice Professional has an understanding of technologies, models, messaging patterns and implementation mediums commonly utilized for the creation of microservices and other types of services.

**Fundamental
Microservices &
Service Technology**
COURSE 01 02

Arcitura®
CERTIFIED
SOA Professional



A Certified SOA Professional has an understanding of service technology, microservices, APIs and service-oriented architecture (SOA), as well as knowledge of design principles for building services and assembling service-oriented solutions.

**Fundamental SOA
Design with Services
& Microservices**
COURSE 01 03

Arcitura®
CERTIFIED
SOA Analyst



A Certified SOA Analyst has an in-depth understanding of analysis techniques and processes for modeling service APIs, microservice APIs and service compositions for service portfolio and service-oriented solution blueprints.

**SOA Analysis &
Modeling with
Services &
Microservices**
COURSE 01 03 04 05 06

Arcitura®
CERTIFIED
SOA Architect



A Certified SOA Architect has an in-depth understanding of the technology and application architecture models and mechanics of service, microservice and service composition implementations, and knowledge of how to engineer modern-day services-oriented solutions.

**SOA Design &
Architecture with
Services &
Microservices**
COURSE 01 02 03 07 08

Arcitura®
CERTIFIED
Microservice Architect



A Certified Microservice Architect has knowledge of the technology architecture models and mechanics of microservice implementations and containerization environments, as well as an understanding of associated design techniques for engineering microservices.

**Microservice
Design &
Architecture**
COURSE 01 02 09 10 11

Arcitura®
CERTIFIED
Microservice Consultant



A Certified Microservice Consultant has knowledge of a cross-section of service technologies, solution design practices, API design techniques and security considerations relevant to microservices and other types of services.

**Microservice
Professional
Consulting**
COURSE 01 02 09 12 18

Arcitura®
CERTIFIED
Service API Specialist



A Certified Service API Specialist has in-depth knowledge of service API design and coupling techniques, and REST and web-capable RPC protocols, as well as associated management practices, including monetization and versioning.

**Service API
Design &
Management**
COURSE 01 02 12 13 14

Arcitura®
CERTIFIED
Service Governance
Specialist



A Certified Service Governance Specialist has an in-depth understanding of project delivery methodology, as well as the definition and evolution of a service governance framework comprised of formal precepts, roles and processes.

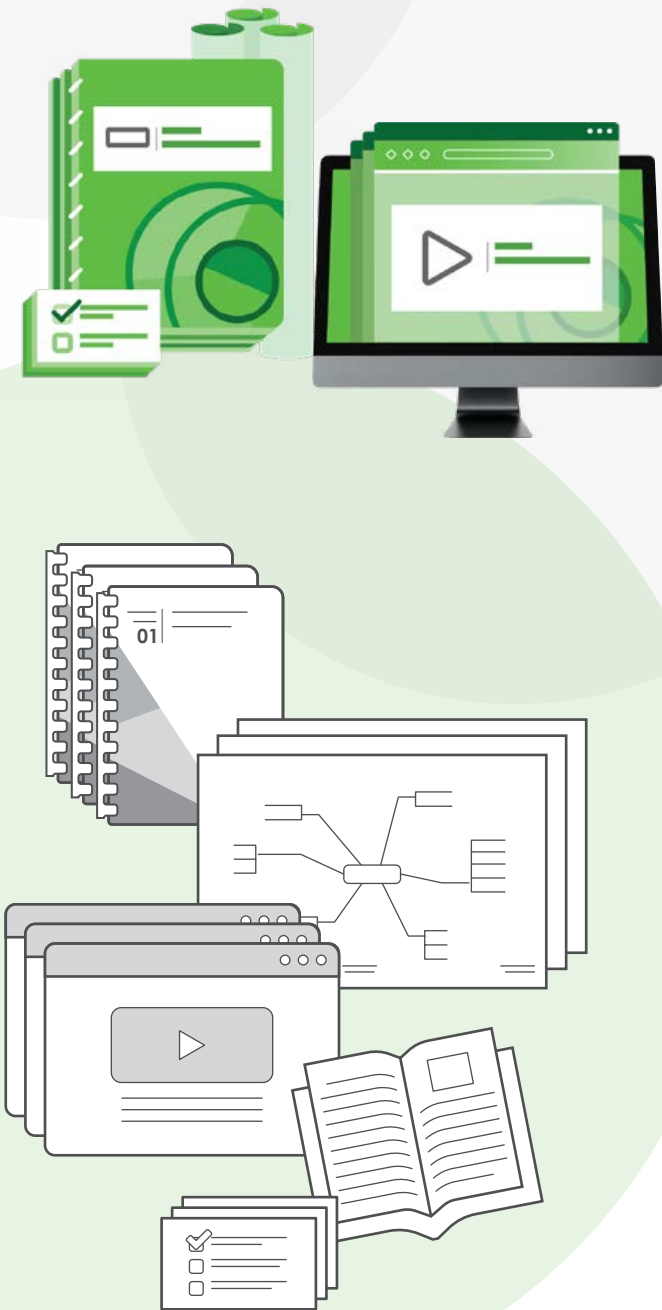
**Service
Governance &
Project Delivery**
COURSE 01 03 15 16 17

Arcitura®
CERTIFIED
Service Security
Specialist



A Certified Service Security Specialist has comprehensive knowledge of common threats and vulnerabilities associated with solutions based on the use of services and microservices, and has an understanding of how to equip solution architectures with security controls.

**Security for
Microservices &
SOA**
COURSE 01 02 18 19 20



Fundamental Microservices & Service Technology Course

Microservice Professional Certification

The Fundamental Microservices & Service Technology course provides an understanding of the concepts, models and industry technologies relevant to contemporary microservices and other API-driven service technology implementations. This course can be used to prepare for the Microservice Professional Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 02 | Microservice Technology Concepts

Covers industry technologies, implementation mediums and messaging protocols relevant to microservices and other forms of API-driven services, as well as basic coverage of relevant cloud computing topics.



Fundamental SOA Design with Services & Microservices Course SOA Professional Certification

The Fundamental SOA Design with Services & Microservices course establishes an essential understanding of the technologies and concepts associated with designing and composing API-driven services and microservices, as well as models and characteristics of service-oriented architecture. This course can be used to prepare for the SOA Professional Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 03 | Design & Architecture with SOA, Services & Microservices

Essential topics pertaining to service architectural models and practices and service-orientation principles relevant to service and microservice design, along with a range of distinct considerations for designing service-oriented solutions with REST services and Web services.



SOA Analysis & Modeling with Services & Microservices Course SOA Analyst Certification

The SOA Analysis & Modeling with Services & Microservices course provides in-depth coverage of service and API modeling for microservices and other types of services, include the modeling of complex service compositions and service inventory blueprints. This course can be used to prepare for the SOA Analyst Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 03 | Design & Architecture with SOA, Services & Microservices

Essential topics pertaining to service architectural models and practices and service-orientation principles relevant to service and microservice design, along with a range of distinct considerations for designing service-oriented solutions with REST services and Web services.



Module 04 | Fundamental SOA Analysis & Modeling with Services & Microservices

Provides comprehensive coverage of SOA analysis techniques, models and approaches, including strategies and concepts for service modeling, service composition modeling and microservice modeling.



Module 05 | Advanced SOA Analysis & Modeling with Services & Microservices

Delves into the step-by-step processes for the analysis and modeling of services and microservices for REST service and Web service mediums, with an emphasis on establishing effective service layers as part of an overall conceptual blueprint.



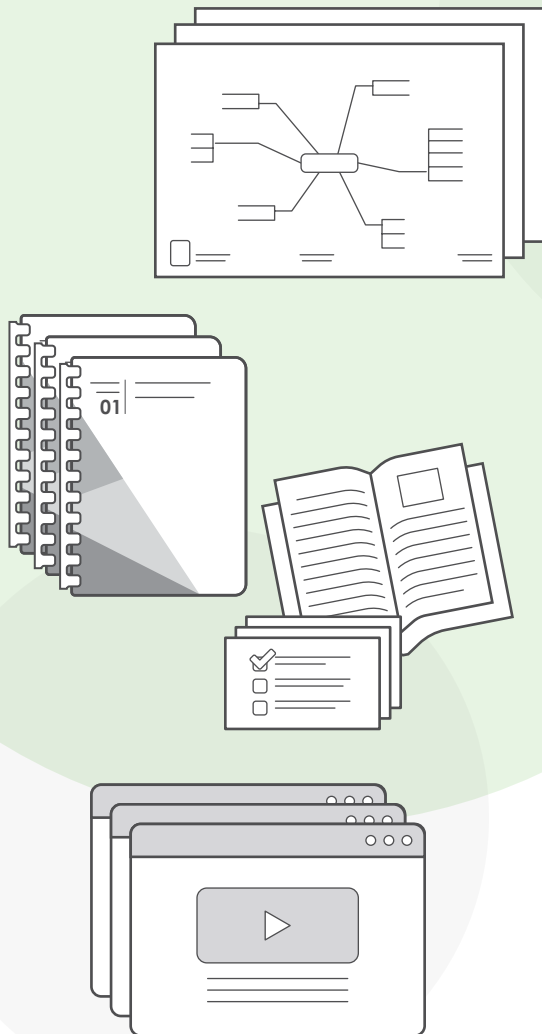
Module 06 | SOA Analysis & Modeling Lab with Services & Microservices

Provides a series of real-world exercises for applying service modeling and SOA analysis techniques for a range of different services-based solutions.



CONTINUED





SOA Design & Architecture with Services & Microservices Course

SOA Architect Certification

The SOA Design & Architecture with Services & Microservices course provides in-depth coverage of service-oriented technology and application architecture models, design patterns and integration techniques. This course can be used to prepare for the SOA Architect Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 02 | Microservice Technology Concepts

Covers industry technologies, implementation mediums and messaging protocols relevant to microservices and other forms of API-driven services, as well as basic coverage of relevant cloud computing topics.



Module 03 | Design & Architecture with SOA, Services & Microservices

Essential topics pertaining to service architectural models and practices and service-orientation principles relevant to service and microservice design, along with a range of distinct considerations for designing service-oriented solutions with REST services and Web services.



Module 07 | Advanced SOA Design & Architecture with Services & Microservices

Provides an in-depth exploration of the overarching models and underlying mechanics of service-oriented technology architecture. A wide range of topic areas is covered to provide techniques, insights and perspectives of the inner workings of service and composition architectures, including messaging, microservice deployments, service contracts, API gateways, containerization and others.



Module 08 | SOA Design & Architecture Lab with Services & Microservices

Provides a series of real-world exercises for applying service-oriented technology architecture models and techniques to design a variety of service-oriented solution architectures.



Microservice Design & Architecture Course

Microservice Architect Certification

The Microservice Design & Architecture course provides comprehensive coverage of microservice technology architecture models and design practices, as well as associated containerization technology components and design approaches. This course can be used to prepare for the Microservice Architect Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 02 | Microservice Technology Concepts

Covers industry technologies, implementation mediums and messaging protocols relevant to microservices and other forms of API-driven services, as well as basic coverage of relevant cloud computing topics.



Module 09 | Fundamental Microservice Architecture & Containerization

Establishes foundational microservice technology architecture and design models and further introduces containerization concepts and container characteristics. Topics covered include microservice deployment, provisioning, registration and isolation levels, as well as logical containers, PODs and composition architecture.



Module 10 | Advanced Microservice Architecture & Containerization

Provides an in-depth exploration of the practices, models and technology architectures behind microservices and containerization. Topics include microservice scaling, data management and autonomous ownership and versioning, as well as event sourcing, CQRS, composite isolated containers and container hosting models.



Module 11 | Microservice Architecture & Containerization Lab

Provides a series of real-world exercises for applying architectural and design exercises pertaining to microservices and the use of containerization.



Microservice Professional Consulting Course

Microservice Consultant Certification

The Microservice Professional Consulting course provides a cross-section of topic coverage that includes microservice application architecture, containerization, service API design and management, and security technology and practices relevant to microservices.

This course can be used to prepare for the Microservice Consultant Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 02 | Microservice Technology Concepts

Covers industry technologies, implementation mediums and messaging protocols relevant to microservices and other forms of API-driven services, as well as basic coverage of relevant cloud computing topics.



Module 09 | Fundamental Microservice Architecture & Containerization

Establishes foundational microservice technology architecture and design models and further introduces containerization concepts and container characteristics. Topics covered include microservice deployment, provisioning, registration and isolation levels, as well as logical containers, PODs and composition architecture.



Module 12 | Fundamental Service API Design & Management

Essential topics are covered pertaining to modern-day service API design and management practices and models. Coverage includes positive and negative API coupling types, API granularity levels, the use of API proxies and API gateways, as well as service API versioning.



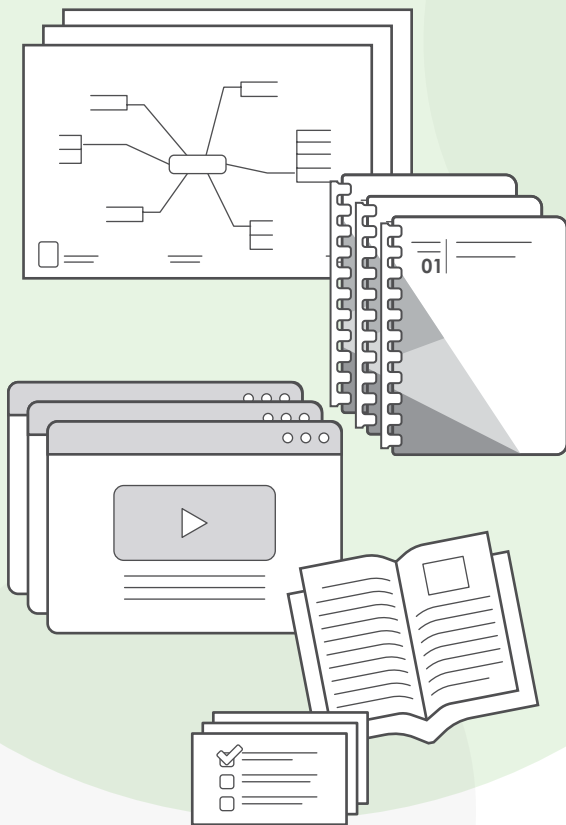
Module 18 | Fundamental Security for Services, Microservices & SOA

Provides coverage of essential security concepts and controls, as well as techniques and industry technologies that pertain to establishing security measures and security architectures for microservices and other types of services.



CONTINUED

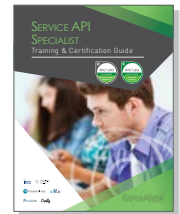




Service API Design & Management Course

Service API Specialist Certification

The Service API Design & Management course provides comprehensive coverage of API design techniques, coupling and granularity considerations, and API management practices including API versioning. Also covered are serialization protocols, as well as topics pertaining to REST and RPC protocols. This course can be used to prepare for the Service API Specialist Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 02 | Microservice Technology Concepts

Covers industry technologies, implementation mediums and messaging protocols relevant to microservices and other forms of API-driven services, as well as basic coverage of relevant cloud computing topics.



Module 12 | Fundamental Service API Design & Management

Essential topics are covered pertaining to modern-day service API design and management practices and models. Coverage includes positive and negative API coupling types, API granularity levels, the use of API proxies and API gateways, as well as service API versioning.



Module 13 | Advanced Service API Design & Management

Advanced coverage of service API design and management techniques and practices, binary and non-binary data serialization protocols (such as Protocol Buffers and Apache Avro), as well as RPC-based service API protocols (such as gRPC, GraphQL and Falcor).



Module 14 | Service API Design & Management Lab

Provides a series of real-world exercises for applying service API design techniques and management practices for a range of different solution scenarios.



Service Governance & Project Delivery Course

Service Governance Specialist Certification

The Service Governance & Project Delivery course provides end-to-end coverage of service technology project delivery stages and SOA governance phases, along with numerous associated precepts, processes and roles. This course can be used to prepare for the Service Governance Specialist Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



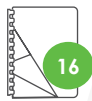
Module 03 | Design & Architecture with SOA, Services & Microservices

Essential topics pertaining to service architectural models and practices and service-orientation principles relevant to service and microservice design, along with a range of distinct considerations for designing service-oriented solutions with REST services and Web services.



Module 15 | Fundamental Service Governance & Project Delivery

Service project delivery methodologies are explained, along with governance technology and task types and service vitality triggers and processes. Coverage includes SOA adoption planning and information and service policy governance precepts, processes and roles.



Module 16 | Advanced Service Governance & Project Delivery

A range of service governance precepts and processes for SOA is covered, including those that address service usage, monitoring, legal data audits, testing practices, as well as service analysis, design and programming.



Module 17 | Service Governance & Project Delivery Lab

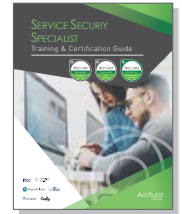
Provides a series of real-world exercises for establishing service lifecycle governance programs and measuring and identifying weaknesses in existing governance systems.



Security for Microservices & SOA Course

Service Security Specialist Certification

The Security for Microservices & SOA course provides in-depth coverage of industry technologies, practices and controls used to secure microservice-based applications and other types of service-oriented solutions and counter common security threats. This course can be used to prepare for the Service Security Specialist Certification exam.



Request this Guide



Module 01 | Fundamental SOA, Services & Microservices

Provides comprehensive coverage of contemporary concepts, models and technologies pertaining to modern-day microservices and other forms of API-driven services, including coverage of service-oriented computing and service-oriented architecture (SOA).



Module 02 | Microservice Technology Concepts

Covers industry technologies, implementation mediums and messaging protocols relevant to microservices and other forms of API-driven services, as well as basic coverage of relevant cloud computing topics.



Module 18 | Fundamental Security for Services, Microservices & SOA

Provides coverage of essential security concepts and controls, as well as techniques and industry technologies that pertain to establishing security measures and security architectures for microservices and other types of services.



Module 19 | Advanced Security for Services, Microservices & SOA

Covers a series of technical and complex security topics pertaining to contemporary microservice deployments, service-oriented solution design, infrastructure, API gateways and modern service technologies.



Module 20 | Security Lab for Services, Microservices & SOA

Provides a series of real-world exercises for applying security practices and technologies to counter threats and solve complex service technology security problems.



THE ARCITURA DIFFERENCE

Regardless of whether you are an individual looking to boost your career or an organization looking to up-skill a team, Arcitura courses and certifications provide a sound investment.



Both courses and accreditations are vendor-neutral, which means they empower you with skills and credentials that you can take to wherever you need to go.

Arcitura is dedicated to excellence in content quality, which is why courses and exams undergo a common development process and are authored by a dedicated team in collaboration with subject matter experts.

arcitura.com/about

What You Learn from Arcitura Courses



Learn from an Extensive Curriculum

Arcitura provides one of the largest and most comprehensive vendor-neutral IT education programs in the world.



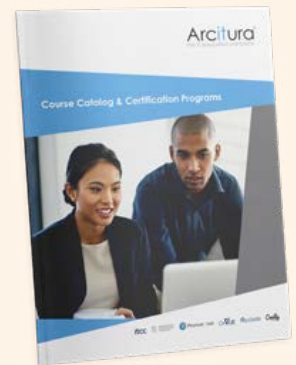
Learn about the Latest in IT

Arcitura courses and certifications cover contemporary topics from an IT industry perspective.



Learn about Real World IT

When you take an Arcitura course you learn about a field of practice as it exists in the real world, not specific to any vendor.



Comprehensive Coverage

Each course provides a comprehensive curriculum with 2-8 modules and 20-80 hours of training.



More Than Just Video Lessons

In addition to standard video lessons, courses include full-color workbooks and reference posters for all lessons.



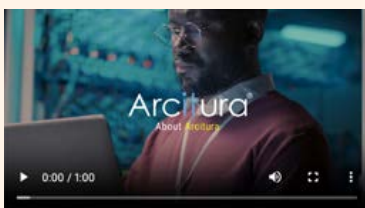
Interactive & Graded Challenges

Courses also include interactive and graded exercises, interactive and graded self-tests and other supplements.

What's in an Arcitura Course

youtube.com/@arcitura

About Arcitura



About Arcitura Courses



About Arcitura Certifications





TAKING EXAMS AT PEARSON VUE TESTING CENTERS

Pearson VUE offers testing centers worldwide that allow test takers to take proctored exams in-person. For more information, visit: www.pearsonvue.com/arcitura



TAKING EXAMS VIA PEARSON VUE ONLINE PROCTORING

Pearson VUE OnVUE Online Proctoring enables test takers to take proctored exams remotely, in any time zone, and often on short notice. For more information, visit: www.pearsonvue.com/arcitura/op



TAKING EXAMS VIA DIRECT ONLINE PROCTORING

Arcitura Direct Online Proctoring enables test takers to take proctored exams remotely, in any time zone, and often on short notice. For more information, contact info@arcitura.com and provide your exam scheduling preferences.



TAKING ON-SITE EXAMS DURING AN INSTRUCTOR-LED WORKSHOP

It is possible for Arcitura exams to be taken during the delivery of onsite workshops. In this case, the Certified Trainer teaching the workshop also acts as the exam proctor. Contact info@arcitura.com for more information regarding this option.

You can take exams from anywhere in the world via Pearson VUE testing centers, Pearson VUE OnVUE online proctoring, direct online proctoring and/or onsite exam proctoring at your location. Visit www.arcitura.com/exams for details.

COURSES		Essential AI	Predictive AI	Generative AI	AI Engineering	AI Architecture & Design	AI Professional Consulting	NLP Engineering	AI Governance & Ethics	Cloud AI Technology & Automation	Cloud AI Architecture & Design
CERTIFICATIONS		AI Professional	Predictive AI Specialist	Generative AI Specialist	AI Engineer	AI Architect	AI Consultant	NLP Engineer	AI Governance & Ethics Specialist	Cloud AI Professional	Cloud AI Architect
MODULE 01	Fundamental Predictive AI	●	●		●	●	●				
MODULE 02	Advanced Predictive AI		●								
MODULE 03	Predictive AI Lab		●								
MODULE 04	Fundamental Generative AI	●		●	●	●	●				
MODULE 05	Advanced Generative AI			●							
MODULE 06	Generative AI Lab			●							
MODULE 07	Fundamental AI Engineering				●		●				
MODULE 08	Advanced AI Engineering				●						
MODULE 09	AI Engineering Lab				●						
MODULE 10	Fundamental AI Architecture					●	●				
MODULE 11	Advanced AI Architecture					●					
MODULE 12	AI Architecture Lab					●					
MODULE 13	Fundamental NLP Engineering							●			
MODULE 14	Advanced NLP Engineering							●			
MODULE 15	NLP Engineering Lab							●			
MODULE 16	Fundamental AI Governance & Ethics								●		
MODULE 17	Advanced AI Governance & Ethics								●		
MODULE 18	AI Governance & Ethics Lab								●		
MODULE 19	Fundamental Cloud AI Technology & Automation									●	●
MODULE 20	Advanced Cloud AI Technology & Automation									●	●
MODULE 21	Fundamental Cloud AI Architecture & Design										●
MODULE 22	Advanced Cloud AI Architecture & Design										●
MODULE 23	Cloud AI Architecture & Design Lab										●

Data Science, Big Data & Machine Learning courses are part of the Arcitura Next-Gen Data Science Academy curriculum. Intelligent Automation with AI and RPA courses are part of the Arcitura Digital Transformation Professional Academy curriculum.

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
CERTIFICATIONS		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 AI					●				●
MODULE 15	Fundamental Cybersecurity						●	●		
MODULE 16	Advanced Cybersecurity							●		
MODULE 17	Fundamental RPA								●	●
MODULE 18	Advanced RPA & Intelligent Automation									●

Attaining a certification that encompasses all of the course modules also associated with another certification results in the other certification also being automatically awarded.

COURSES		DevOps	Blockchain Architecture	IoT Architecture	Cybersecurity	Robotic Process Automation	Digital Business Technology	Containerization Architecture	Quantum Computing
CERTIFICATIONS		DevOps Specialist	Blockchain Architect	IoT Architect	Cybersecurity Specialist	RPA Specialist	Digital Business Technology Professional	Containerization Architect	Quantum Computing Specialist
DevOps	MODULE 01 Fundamental DevOps	●							
	MODULE 02 DevOps in Practice	●							
	MODULE 03 DevOps Lab	●							
Blockchain	MODULE 01 Fundamental Blockchain		●						
	MODULE 02 Blockchain Technology & Architecture		●						
	MODULE 03 Blockchain Technology & Architecture Lab		●						
Internet of Things	MODULE 01 Fundamental IoT			●					
	MODULE 02 IoT Technology & Architecture			●					
	MODULE 03 IoT Technology & Architecture Lab			●					
Cybersecurity	MODULE 01 Fundamental Cybersecurity				●				
	MODULE 02 Advanced Cybersecurity				●				
	MODULE 03 Cybersecurity Lab				●				
Robotic Process Automation	MODULE 01 Fundamental RPA					●			
	MODULE 02 Advanced RPA & Intelligent Automation					●			
	MODULE 03 RPA Lab					●			
Digital Business Technology	MODULE 01 Business Automation Technology Overview						●		
	MODULE 02 Data Science Technology Overview						●		
	MODULE 03 Digital & Security Technology Overview						●		
Containerization	MODULE 01 Fundamental Containerization							●	
	MODULE 02 Containerization Technology & Architecture							●	
	MODULE 03 Containerization Technology & Architecture Lab							●	
Quantum Computing	MODULE 01 Fundamental Quantum Computing								●
	MODULE 02 Advanced Quantum Computing								●
	MODULE 03 Quantum Computing Lab								●

COURSES		Essential Big Data & Data Science	Big Data Analytics & Fundamental Data Science	Big Data Analysis & Advanced Data Science	Big Data Professional Consulting	Data Science Professional Consulting	Machine Learning	Big Data Engineering	Big Data Architecture	Data Science Governance
CERTIFICATIONS		Big Data Professional	Big Data Science Professional	Big Data Scientist	Big Data Consultant	Data Science Consultant	Machine Learning Specialist	Big Data Engineer	Big Data Architect	Data Science Governance 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 Predictive & Generative Artificial Intelligence (AI)					●				
MODULE 11	Fundamental Big Data Engineering				●			●		
MODULE 12	Advanced Big Data Engineering							●		
MODULE 13	Big Data Engineering Lab							●		
MODULE 14	Fundamental Big Data Architecture								●	
MODULE 15	Advanced Big Data Architecture								●	
MODULE 16	Big Data Architecture Lab								●	
MODULE 17	Fundamental Data Science Governance									●
MODULE 18	Advanced Data Science Governance									●
MODULE 19	Data Science Governance Lab									●

Artificial Intelligence (AI) courses are part of the Arcitura AI & Cloud AI Professional Academy curriculum. Intelligent Automation with AI and RPA courses are part of the Arcitura Digital Transformation Professional Academy curriculum.

Attaining a certification that encompasses all of the course modules also associated with another certification results in the other certification also being automatically awarded.

COURSES	Essential Cloud Computing	Cloud Computing Concepts & Technology	Cloud Computing Professional Consulting	Cloud Architecture	Cloud Security	Cloud Governance	Cloud Storage	Cloud Virtualization
CERTIFICATIONS	Cloud Professional	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								●

Attaining a certification that encompasses all of the course modules also associated with another certification results in the other certification also being automatically awarded.

COURSES		Fundamental Microservices & Service Technology	Fundamental SOA Design with Services & Microservices	SOA Analysis & Modeling with Services & Microservices	SOA Design & Architecture with Services & Microservices	Microservice Design & Architecture	Microservice Professional Consulting	Service API Design & Management	Service Governance & Project Delivery	Security for Microservices & SOA
CERTIFICATIONS		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									●

Attaining a certification that encompasses all of the course modules also associated with another certification results in the other certification also being automatically awarded.

CURRICULUM MAPPING

Digital Transformation	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 AI
	MODULE 15 Fundamental Cybersecurity
	MODULE 16 Advanced Cybersecurity
	MODULE 17 Fundamental RPA
	MODULE 18 Advanced RPA & Intelligent Automation

The following mapping diagram shows which course modules from the Digital Transformation Professional Academy curriculum correspond to course modules in other programs. Use this mapping information for your learning plan, as the completion of a course module in one program will automatically advance you in another course in a different program.

MODULE 01 Fundamental Cloud Computing	Cloud Computing School
MODULE 02 Cloud Technology Concepts	Cloud Computing School
MODULE 01 Fundamental Blockchain	Next-Gen It Academy
MODULE 01 Fundamental IoT	Next-Gen It Academy
MODULE 04 Cloud Architecture	Cloud Computing School
MODULE 02 Blockchain Technology & Architecture	Next-Gen It Academy
MODULE 02 IoT Technology & Architecture	Next-Gen It Academy
MODULE 01 Fundamental Big Data Science & Analytics	Next-Gen Data Science Academy
MODULE 07 Fundamental Machine Learning	Next-Gen Data Science Academy
MODULE 01 Fundamental Predictive AI	AI & Cloud AI Professional Academy
MODULE 02 Big Data Analysis & Technology Concepts	Next-Gen Data Science Academy
MODULE 08 Advanced Machine Learning	Next-Gen Data Science Academy
MODULE 02 Advanced Predictive AI	AI & Cloud AI Professional Academy
MODULE 01 Fundamental Cybersecurity	Next-Gen It Academy
MODULE 02 Advanced Cybersecurity	Next-Gen It Academy
MODULE 01 Fundamental RPA	Next-Gen It Academy
MODULE 02 Advanced RPA & Intelligent Automation	Next-Gen It Academy

WORK WITH US



BECOME AN **AUTHORIZED PARTNER**

Whether you are with a private training provider, an academic institution or part of an organization interested in bringing training in-house, Arcitura Education has a flexible partnering model that can accommodate a broad range of requirements and budgets.



BECOME A **CERTIFIED TRAINER**

Arcitura Education offers a Trainer Development Program that guides individuals through a series of steps to help them work toward the requirements for teaching Arcitura courses. If you are interested in pursuing a Certified Trainer designation, contact info@arcitura.com.

CONTACT US

+1.604.904.4100
info@arcitura.com
www.arcitura.com





youtube.com/@arcitura



linkedin.com/company/arcitura

Arcitura®

Copyright © Arcitura Education Inc.
www.arcitura.com • info@arcitura.com