Course Catalog & Certification Programs
2023
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 SCHOOL
The Cloud School from Arcitura provides formal education and accreditation programs dedicated to fields of practice associated with Cloud Computing, including technology architecture, security, governance and specialized areas of cloud technology.

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>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELF-STUDY &amp; WORKSHOPS</td>
<td>04</td>
</tr>
<tr>
<td>DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY</td>
<td>06</td>
</tr>
<tr>
<td>NEXT-GEN IT ACADEMY</td>
<td>12</td>
</tr>
<tr>
<td>NEXT-GEN DATA SCIENCE ACADEMY</td>
<td>18</td>
</tr>
<tr>
<td>CLOUD SCHOOL</td>
<td>24</td>
</tr>
<tr>
<td>SERVICE TECHNOLOGY SCHOOL</td>
<td>30</td>
</tr>
<tr>
<td>EXAM PROCTORING</td>
<td>36</td>
</tr>
<tr>
<td>EXAMS</td>
<td>37</td>
</tr>
<tr>
<td>TRAINING &amp; EXAM PREPARATION RESOURCES</td>
<td>38</td>
</tr>
<tr>
<td>CERTIFICATION TRACKS</td>
<td>39</td>
</tr>
<tr>
<td>CURRICULUM MAPPING</td>
<td>44</td>
</tr>
<tr>
<td>WORK WITH US</td>
<td>46</td>
</tr>
</tbody>
</table>
ARCTURA eLEARNING OPTIONS
To give you the most flexibility to achieve your learning goals and accommodate your preferences, this course is made available via two Arcitura eLearning solutions: An interactive environment with graded exercises and a graded self-test, as well as a study kit account that supports online/offline access and custom annotations.

ONLINE COACHING
Arcitura Certified Trainers are available to provide online coaching services that can be scheduled on an hourly basis. Scheduling is available in all time zones and is based on your preferences and trainer availability.

ENHANCED SELF-STUDY WITH ADD-ONs
Arcitura eLearning courses can be supplemented with downloadable course files, printed course materials and other add-on resources.

EXAM PREPARATION & TAKING EXAMS
Each Arcitura eLearning course includes practice questions that can help with certification exam preparation. Certification exams can be taken worldwide at Pearson VUE testing centers, via Pearson VUE OnVUE online proctoring and/or via direct online proctoring.
**ONSITE WORKSHOPS**
Private onsite workshops can be delivered by Certified Trainers from Arcitura and authorized training partners for both small and large groups. Each workshop participant can receive access to the full Arcitura eLearning course materials. Each workshop agenda, format and schedule can be tailored to client requirements. Onsite workshops allow for the option to deliver onsite paper-based exams.

**VIRTUAL WORKSHOPS**
Private virtual workshops can be delivered by Certified Trainers from Arcitura and authorized training partners for small and large groups, as well as individual participants. Each workshop participant can receive access to the full Arcitura eLearning course materials. Each workshop agenda, virtual delivery platform and schedule can be tailored to client requirements. In addition to a typical delivery schedule based on consecutive workshop days, virtual workshops allow for a delivery schedule to be distributed as shorter sessions across weeks or months.

**ONLINE COACHING**
Arcitura Certified Trainers are available to provide online coaching services that can be scheduled on an hourly basis. Scheduling is available in all time zones and is based on your preferences and trainer availability. For workshop participants, coaching sessions can be scheduled during or after a given workshop, for groups or individuals.

**EXAM PREPARATION & TAKING EXAMS**
Onsite and virtual workshop participants can receive complimentary practice exam questions as part of their eLearning course accounts. Certified Trainers can supervise and provide guidance for participants completing the self-tests and the Exam Prep Kit practice questions provided in the eLearning accounts. Certification exams can be taken worldwide at Pearson VUE testing centers, via Pearson VUE OnVUE online proctoring and/or via direct online proctoring.
The Digital Transformation Professional Academy from Arcitura provides formal education and accreditation programs dedicated to industry-standard Digital Transformation.

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 Pearson VUE testing centers, as well as via Pearson VUE OnVue online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on 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.

QUESTIONS?
Contact us at: info@arcitura.com
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.

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.

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

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.

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.

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.

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.

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).

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 courses are available via online study, as well as in-person or virtual instructor-led training and coaching.

Digital Transformation provides a clear understanding of Digital Transformation from both business and technical perspectives and further develop fundamental skills in Digital Transformation practices and technologies.

**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

Provides essential coverage of primary Digital Transformation technologies and develop skills associated with their application.

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

Drills-down into the technology architecture and inner workings of primary Digital Transformation technologies and develop skills associated with their application.

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.
Digital Transformation: Fundamental Data Science

Provides comprehensive coverage of contemporary data science and analysis practices and technology essential to Digital Transformation.

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

Delves into the practical application of contemporary data science techniques and algorithms.

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.
Digital Transformation: Fundamental Security

Provides in-depth coverage of security concepts, technologies and practices essential to Digital Transformation.

MODULE 04 | Fundamental Blockchain
Provides a clear, end-to-end understanding of how Blockchain works. It breaks down Blockchain Security 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

Covers advanced Cybersecurity and Blockchain topics essential to building contemporary Digital Transformation solutions.

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 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

Provides fundamental coverage of artificial intelligent (AI) and robotic process automation (RPA) concepts, technologies and practices associated with intelligent automation (IA).

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 19 | Fundamental AI Decisioning
Covers essential topics pertaining to AI systems, neural networks and data processing, with an emphasis on autonomous decision-making capability-enablement. Topics include risk assessment, reinforcement learning, decision-result evaluation, ethics and behavior control.

Digital Transformation: Advanced Intelligent Automation

Covers advanced AI and RPA topics to explore the creation of integrated intelligent automation environments.

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.

MODULE 20 | Advanced AI Decisioning
Covers advanced topics, such as knowledge representation, rules of inference, probabilistic reasoning and First-Order Logic (FOL) and documents a series of AI practices as applied to autonomous decision-making, including reasoning, data wrangling, reinforcement learning and model evaluation and optimization.

www.arcitura.com
Next-Gen IT certifications are formal accreditations that prove proficiency in contemporary fields of practice and modern IT technologies.

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 Pearson VUE testing centers, as well as via Pearson VUE OnVue online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on a required exam achieves a certification for which a digital accreditation certificate is automatically issued by Arcitura and a digital certification badge is issued by Acclaim/Credly. Note that the completion of select Next-Gen IT courses and certifications are also applicable to some Digital Transformation accreditation requirements.

QUESTIONS?
Contact us at: info@arcitura.com
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.

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.

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.

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.

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.

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.

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.

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.
Next-Gen IT courses are available via online study, as well as in-person or virtual instructor-led training and coaching.

DevOps
Develops skills in DevOps practices, processes, metrics and models.

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
Develops skills in Blockchain functions, architectural models, technology and security.

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
Develops skills in Internet of Things (IoT) technology and architecture, along with proficiency in radio protocols, telemetry messaging and IoT architecture layers.

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.
Cybersecurity
Develops an understanding of common cyber security threats and vulnerabilities and further develops skills in the technologies and practices used to prevent and counter cyber-attacks.

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)
Develops skills in RPA technologies, practices and business process automation models.

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.

Next-Gen IT courses are available via online study, as well as in-person or virtual instructor-led training and coaching.
Digital Business Technology

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.

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.

Containerization Architecture

Develops skills in containerization technology and architecture, along with proficiency in assessing, designing and securing highly available container-hosted services and solutions.

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.

Quantum Computing

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.

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 include 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 from Arcitura provides formal education and accreditation programs dedicated to the fields of Artificial Intelligence, Machine Learning, Big Data, including analytics and analysis, data science, architecture, engineering and governance.

The Next-Gen Data Science Academy curriculum is comprised of 24 course modules and 9 certification tracks. Exams are available worldwide via Pearson VUE testing centers, as well as via Pearson VUE OnVue online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on the required exam(s) achieves a certification for which a digital accreditation certificate is automatically issued by Arcitura and a digital certification badge is issued by Acclaim/Credly.

QUESTIONS?
Contact us at: info@arcitura.com
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.

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.

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.

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.

A Certified Artificial Intelligence Specialist understands how AI practices can be utilized to perform data analysis and autonomous data processing and has knowledge of AI learning approaches and functional designs, as well as knowledge of neural networks.

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.

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.

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.

A Certified AI Decisioning Specialist has an understanding of artificial intelligence concepts, models and practices that pertain to enabling and maintaining AI systems with autonomous decision-making capabilities.
Next-Gen Data Science courses are available via online study, as well as in-person or virtual instructor-led training and coaching.

**Big Data Analytics & Fundamental Data Science**

Develops skills in Big Data analytics and analysis, as well as data science fundamentals.

**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

Provides comprehensive coverage of contemporary Big Data analysis and analytics practices and advanced data science techniques and processes.

**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.

Machine Learning

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.

**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.

Artificial Intelligence (AI)

Develops skills in AI practices and learning approaches, as well as Neural Network architectures, cell types and activation functions.

**MODULE 10 | Fundamental Artificial Intelligence**
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 11 | Advanced Artificial Intelligence**
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 12 | Artificial Intelligence Lab**
Provides a series of exercises for applying AI systems and neural network architectures, as they are applied and combined to solve real-world problems.
Next-Gen Data Science courses are available via online study, as well as in-person or virtual instructor-led training and coaching.

Data Science Professional Consulting
Provides comprehensive coverage of contemporary Big Data analysis and analytics practices and advanced data science techniques and processes.

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 Artificial Intelligence
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 13 | 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 14 | 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 15 | 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

Provides comprehensive coverage of design techniques, technology architecture models and patterns associated with building and integrating Big Data solutions within enterprise environments.

MODULE 16 | 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 17 | 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 18 | 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.

AI Decisioning

Provides coverage of essential AI topics and explores the technologies, techniques and data processing models distinct to enabling autonomous decision-making within AI systems.

MODULE 22 | Fundamental AI Decisioning
Covers essential topics pertaining to AI systems, neural networks and data processing, with an emphasis on autonomous decision-making capability-enablement. Topics include risk assessment, reinforcement learning, decision-result evaluation, ethics and behavior control.

MODULE 23 | Advanced AI Decisioning
Covers advanced topics, such as knowledge representation, rules of inference, probabilistic reasoning and First-Order Logic (FOL) and documents a series of AI practices as applied to autonomous decision-making, including reasoning, data wrangling, reinforcement learning and model evaluation and optimization.

MODULE 24 | AI Decisioning Lab
Provides a series of real-world exercises for utilizing AI practices and techniques to assemble AI-driven, autonomous decisioning solutions for common usage scenarios.

Data Science Governance

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.

MODULE 19 | Fundamental Data Science Governance for Big Data, Machine Learning & AI
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 20 | Advanced Data Science Governance for Big Data, Machine Learning & AI
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.
The Cloud School from Arcitura provides formal education and accreditation programs dedicated to fields of practice associated with Cloud Computing, including technology architecture, security, governance and specialized areas of cloud technology.

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

QUESTIONS?
Contact us at: info@arcitura.com
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.

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.

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.

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.

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

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.

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.
Cloud School courses are available via online study, as well as in-person or virtual instructor-led training and coaching.

Cloud Computing

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.

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

Covers fundamental cloud technology architecture models and design practices, as well as essential cloud security threats, controls and counter-measures.

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.

Cloud Architecture

Provides comprehensive coverage of design techniques, technology architecture models, design patterns and mechanisms associated with building cloud-based environments and solutions.

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 Governance

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.

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.

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.

Cloud Security

Provides comprehensive coverage of security controls, mechanisms and architecture models, as well as techniques and practices for responding to security threats.

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 Storage
Covers cloud storage devices and mechanisms, as well as cloud storage architectures and solutions.

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
Covers industry virtualization technology models and mechanisms for building cloud-based virtualization environments and solutions.

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 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.

The Service Technology School curriculum is comprised of 20 course modules and 9 certification tracks. Exams are available worldwide via Pearson VUE testing centers, as well as via Pearson VUE OnVue online proctoring and on-site delivery by Certified Trainers. Achieving a passing grade on the required exam(s) achieves a certification for which a digital accreditation certificate is automatically issued by Arcitura and a digital certification badge is issued by Acclaim/Credly.
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.

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.

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.

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.

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.

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.

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.

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.

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.

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.
Microservice and SOA courses are available via online study, as well as in-person or virtual instructor-led training and coaching.

**Fundamental Microservices & Service Technology**

Provides an understanding of the concepts, models and industry technologies relevant to contemporary microservices and other API-driven service technology implementations.

**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**

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.

**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

Provides in-depth coverage of service and API modeling for microservices and other types of services, including the modeling of complex service compositions and service inventory blueprints.

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.

SOA Design & Architecture with Services & Microservices

Provides in-depth coverage of service-oriented technology and application architecture models, design patterns and integration techniques.

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

Provides comprehensive coverage of microservice technology architecture models and design practices, as well as associated containerization technology components and design approaches.

**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

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.

**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.
Service API Design & Management

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.

**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

Provides end-to-end coverage of service technology project delivery stages and SOA governance phases, along with numerous associated precepts, processes and roles.

**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.

Security for Microservices & SOA

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.

**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.

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

- Digital Transformation Specialist Certification Exam
- Digital Transformation Technology Professional Certification Exam
- Digital Transformation Technology Architect Certification Exam
- Digital Transformation Data Science Professional Certification Exam
- Digital Transformation Data Scientist Certification Exam
- Digital Transformation Security Professional Certification Exam
- Digital Transformation Security Specialist Certification Exam
- Digital Transformation IA Professional Certification Exam
- Digital Transformation IA Specialist Certification Exam

Next-Gen IT Academy

- DevOps Specialist Certification Exam
- Blockchain Architect Certification Exam
- IoT Architect Certification Exam
- Cybersecurity Specialist Certification Exam
- RPA Specialist Certification Exam
- Digital Business Technology Professional Certification Exam
- Containerization Architect Certification Exam
- Quantum Computing Specialist Certification Exam

Next-Gen Data Science Academy

- Big Data Science Professional Certification Exam
- Big Data Scientist Certification Exam
- Machine Learning Specialist Certification Exam
- Artificial Intelligence Specialist Certification Exam
- Data Science Consultant Certification Exam
- Big Data Engineer Certification Exam
- Big Data Architect Certification Exam
- Data Science Governance Specialist Certification Exam
- AI Decisioning Specialist Certification Exam

Cloud School

- Cloud Technology Professional Certification Exam
- Cloud Computing Consultant Certification Exam
- Cloud Architect Certification Exam
- Cloud Security Specialist Certification Exam
- Cloud Governance Specialist Certification Exam
- Cloud Storage Specialist Certification Exam
- Cloud Virtualization Specialist Certification Exam

Service Technology School

- Microservice Professional Certification Exam
- SOA Professional Certification Exam
- SOA Analyst Certification Exam
- SOA Architect Certification Exam
- Microservice Architect Certification Exam
- Service API Specialist Certification Exam
- Service Governance Specialist Certification Exam
- Service Security Specialist Certification Exam
- Microservice Consultant Certification Exam

MORE INFO
For more information regarding these exams contact: info@arcitura.com
TRAINING & EXAM PREPARATION RESOURCES

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

**Certification Exam Prep Kit**
A set of additional practice questions is available to support exam preparation.

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

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

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

**Instructor-Led Training**
Certified Trainers are available to provide virtual and onsite training workshops for this and other Arcitura courses.
<table>
<thead>
<tr>
<th>MODULE</th>
<th>COURSES</th>
<th>CERTIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODULE 01</td>
<td>Fundamental Digital Transformation</td>
<td>Digital Transformation Specialist</td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Digital Transformation in Practice</td>
<td>Digital Transformation Technology Professional</td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Fundamental Cloud Computing</td>
<td>Digital Transformation Technology Architect</td>
</tr>
<tr>
<td>MODULE 04</td>
<td>Fundamental Blockchain</td>
<td>Digital Transformation Data Science Professional</td>
</tr>
<tr>
<td>MODULE 05</td>
<td>Fundamental IoT</td>
<td>Digital Transformation Security Professional</td>
</tr>
<tr>
<td>MODULE 06</td>
<td>Cloud Architecture</td>
<td>Digital Transformation Security Specialist</td>
</tr>
<tr>
<td>MODULE 07</td>
<td>Blockchain Architecture</td>
<td>Digital Transformation Intelligent Automation</td>
</tr>
<tr>
<td>MODULE 08</td>
<td>IoT Architecture</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 09</td>
<td>Fundamental Big Data Analysis &amp; Analytics</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 10</td>
<td>Fundamental Machine Learning</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 11</td>
<td>Fundamental AI</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 12</td>
<td>Advanced Big Data Analysis &amp; Analytics</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 13</td>
<td>Advanced Machine Learning</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 14</td>
<td>Advanced AI</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 15</td>
<td>Fundamental Cybersecurity</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 16</td>
<td>Advanced Cybersecurity</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 17</td>
<td>Fundamental RPA</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 18</td>
<td>Advanced RPA &amp; Intelligent Automation</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 19</td>
<td>Fundamental AI Decisioning</td>
<td>Digital Transformation Data Scientist</td>
</tr>
<tr>
<td>MODULE 20</td>
<td>Advanced AI Decisioning</td>
<td>Digital Transformation Data Scientist</td>
</tr>
</tbody>
</table>

Gray circles indicate prerequisite modules.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MODULE 01</td>
<td>Fundamental DevOps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>DevOps in Practice</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>DevOps Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Blockchain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Blockchain Technology &amp; Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Blockchain Technology &amp; Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental IoT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>IoT Technology &amp; Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>IoT Technology &amp; Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Cybersecurity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Advanced Cybersecurity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Cybersecurity Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental RPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Advanced RPA &amp; Intelligent Automation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>RPA Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Business Automation Technology Overview</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Data Science Technology Overview</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Digital &amp; Security Technology Overview</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Containerization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Containerization Technology &amp; Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Containerization Technology &amp; Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Quantum Computing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Advanced Quantum Computing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Quantum Computing Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MODULE 01</td>
<td>Fundamental DevOps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>DevOps in Practice</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>DevOps Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Blockchain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Blockchain Technology &amp; Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Blockchain Technology &amp; Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental IoT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>IoT Technology &amp; Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>IoT Technology &amp; Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Cybersecurity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Advanced Cybersecurity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Cybersecurity Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental RPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Advanced RPA &amp; Intelligent Automation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>RPA Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Business Automation Technology Overview</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Data Science Technology Overview</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Digital &amp; Security Technology Overview</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Containerization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Containerization Technology &amp; Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Containerization Technology &amp; Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 01</td>
<td>Fundamental Quantum Computing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Advanced Quantum Computing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Quantum Computing Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE</td>
<td>COURSE</td>
<td>Big Data Analytics &amp; Fundamental Data Science</td>
<td>Big Data Analysis &amp; Advanced Data Science</td>
<td>Data Science Professional Consulting</td>
<td>Machine Learning</td>
<td>Artificial Intelligence</td>
<td>Big Data Engineering</td>
<td>Big Data Architecture</td>
</tr>
<tr>
<td>--------</td>
<td>--------</td>
<td>---------------------------------------------</td>
<td>------------------------------------------</td>
<td>---------------------------------------</td>
<td>-----------------</td>
<td>------------------------</td>
<td>----------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>01</td>
<td>Module 01 Fundamental Big Data Science &amp; Analytics</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>Module 02 Big Data Analysis &amp; Technology Concepts</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>Module 03 Big Data Analysis &amp; Technology Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Module 04 Big Data Analysis &amp; Science</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>Module 05 Advanced Big Data Analysis &amp; Science</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>Module 06 Big Data Analysis &amp; Science Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>Module 07 Fundamental Machine Learning</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>Module 08 Advanced Machine Learning</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>Module 09 Machine Learning Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Module 10 Fundamental Artificial Intelligence</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Module 11 Advanced Artificial Intelligence</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Module 12 Artificial Intelligence Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Module 13 Fundamental Big Data Engineering</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Module 14 Advanced Big Data Engineering</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Module 15 Big Data Engineering Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Module 16 Fundamental Big Data Architecture</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Module 17 Advanced Big Data Architecture</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Module 18 Big Data Architecture Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Module 19 Fundamental Data Science Governance for Big Data, Machine Learning &amp; AI</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Module 20 Advanced Data Science Governance for Big Data, Machine Learning &amp; AI</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Module 21 Data Science Governance Lab for Big Data, Machine Learning &amp; AI</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Module 22 Fundamental AI Decisioning</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Module 23 Advanced AI Decisioning</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Module 24 AI Decisioning Lab</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gray circles indicate prerequisite modules.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MODULE 01 Fundamental Cloud Computing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 02 Cloud Technology Concepts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03 Cloud Technology Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 04 Fundamental Cloud Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 05 Advanced Cloud Architecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 06 Cloud Architecture Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 07 Fundamental Cloud Security</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 08 Advanced Cloud Security</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 09 Cloud Security Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 10 Fundamental Cloud Governance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 11 Advanced Cloud Governance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 12 Cloud Governance Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 13 Fundamental Cloud Storage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 14 Advanced Cloud Storage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 15 Cloud Storage Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 16 Fundamental Cloud Virtualization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 17 Advanced Cloud Virtualization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 18 Cloud Virtualization Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gray circles indicate prerequisite modules.
### SERVICE TECHNOLOGY SCHOOL

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MODULE 01</td>
<td>Fundamental SOA, Services &amp; Microservices</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>MODULE 02</td>
<td>Microservice Technology Concepts</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 03</td>
<td>Design &amp; Architecture with SOA, Services &amp; Microservices</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 04</td>
<td>Fundamental SOA Analysis &amp; Modeling with Services &amp; Microservices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 05</td>
<td>Advanced SOA Analysis &amp; Modeling with Services &amp; Microservices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 06</td>
<td>SOA Analysis &amp; Modeling Lab with Services &amp; Microservices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 07</td>
<td>Advanced SOA Design &amp; Architecture with Services &amp; Microservices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 08</td>
<td>SOA Design &amp; Architecture Lab with Services &amp; Microservices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 09</td>
<td>Fundamental Microservice Architecture &amp; Containerization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 10</td>
<td>Advanced Microservice Architecture &amp; Containerization</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 11</td>
<td>Microservice Architecture &amp; Containerization Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 12</td>
<td>Fundamental Service API Design &amp; Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 13</td>
<td>Advanced Service API Design &amp; Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 14</td>
<td>Service API Design &amp; Management Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 15</td>
<td>Fundamental Service Governance &amp; Project Delivery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 16</td>
<td>Advanced Service Governance &amp; Project Delivery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 17</td>
<td>Service Governance &amp; Project Delivery Lab</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 18</td>
<td>Fundamental Security for Services, Microservices &amp; SOA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 19</td>
<td>Advanced Security for Services, Microservices &amp; SOA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULE 20</td>
<td>Security Lab for Services, Microservices &amp; SOA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Gray circles indicate prerequisite modules.

---

**CERTIFICATIONS**

<table>
<thead>
<tr>
<th>Microservice Professional</th>
<th>SOA Professional</th>
<th>SOA Analyst</th>
<th>SOA Architect</th>
<th>Microservice Architect</th>
<th>Microservice Consultant</th>
<th>Service API Specialist</th>
<th>Service Governance Specialist</th>
<th>Service Security Specialist</th>
</tr>
</thead>
</table>

---

**COMPANIES**

- Pearson VUE
- OnVUE
- Acclaim
- Credly

---

www.arcitura.com 43
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.
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
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.