

## Course Module Reference Supplement





## 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



## 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, 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

DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY	05
NEXT-GEN IT ACADEMY	06
NEXT-GEN DATA SCIENCE ACADEMY	07
CLOUD COMPUTING SCHOOL	08
SERVICE TECHNOLOGY SCHOOL	09
PATTERNS-COURSE MODULE MAPPING REFERENCE POSTER	10
MECHANISMS-COURSE MODULE MAPPING REFERENCE POSTER	12
METRICS-COURSE MODULE MAPPING REFERENCE POSTER	14
CURRICULUM MAPPING	16
INSTRUCTOR-LED TRAINING & COACHING	18

# COURSE & CERTIFICATION TRACKS

Arcitura®

AboutCoursesCertificationseLearningInstructor-Led TrainingPlans & PricingStore

EN

itcc

PROFESSIONAL CERTIFICATION

Pearson | VUE

OnVUE

Acclaim

Credly

Course & Certification Tracks

Use the Program Matrix Pages to Explore Course and Certification Tracks

Overview

Digital Transformation Professional Academy

Next-Gen IT Academy

Next-Gen Data Science Academy

Cloud Computing School

Service Technology School

Digital Transformation Professional Academy

9 Courses with 20 Modules and 9 Certifications

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

9 Courses with 24 Modules and 9 Certifications

The Next-Gen IT Academy from Arcitura provides formal education and accreditation programs focused on contemporary technologies and fields of practice, including RPA, Cybersecurity, Containerization, IoT, Blockchain, DevOps and Quantum Computing.

Next-Gen Data Science Academy

9 Courses with 27 Modules and 9 Certifications

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

Cloud Computing School

7 Courses with 18 Modules and 7 Certifications

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

Service Technology School

9 Courses with 20 Modules and 9 Certifications

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

View any of the upcoming matrix pages online at:  
[www.arcitura.com/tracks](http://www.arcitura.com/tracks)

## QUESTIONS?

Contact us at: [info@arcitura.com](mailto:info@arcitura.com)

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 Technology Professional	Digital 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									●
MODULE 19	Fundamental AI Decisioning								●	●
MODULE 20	Advanced AI Decisioning									●

Gray circles indicate prerequisite modules.

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

Gray circles indicate prerequisite modules.

COURSES	Cloud Computing	Cloud Computing Professional Consulting	Cloud Architecture	Cloud Security	Cloud Governance	Cloud Storage	Cloud Virtualization
CERTIFICATIONS	Cloud Technology Professional	Cloud Computing Consultant	Cloud Architect	Cloud Security Specialist	Cloud Governance Specialist	Cloud Storage Specialist	Cloud Virtualization Specialist
<b>MODULE 01</b> Fundamental Cloud Computing	●	●	●	●	●	●	●
<b>MODULE 02</b> Cloud Technology Concepts	●	●	●	●	●	●	●
<b>MODULE 03</b> Cloud Technology Lab	●	●					
<b>MODULE 04</b> Fundamental Cloud Architecture		●	●				
<b>MODULE 05</b> Advanced Cloud Architecture			●				
<b>MODULE 06</b> Cloud Architecture Lab			●				
<b>MODULE 07</b> Fundamental Cloud Security		●		●			
<b>MODULE 08</b> Advanced Cloud Security				●			
<b>MODULE 09</b> Cloud Security Lab				●			
<b>MODULE 10</b> Fundamental Cloud Governance					●		
<b>MODULE 11</b> Advanced Cloud Governance					●		
<b>MODULE 12</b> Cloud Governance Lab					●		
<b>MODULE 13</b> Fundamental Cloud Storage						●	
<b>MODULE 14</b> Advanced Cloud Storage						●	
<b>MODULE 15</b> Cloud Storage Lab						●	
<b>MODULE 16</b> Fundamental Cloud Virtualization							●
<b>MODULE 17</b> Advanced Cloud Virtualization							●
<b>MODULE 18</b> Cloud Virtualization Lab							●

Gray circles indicate prerequisite modules.



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									●

Gray circles indicate prerequisite modules.

Digital Transformation  
Professional Academy

1. Locate the type of patterns you are looking for in the first column.
2. Find the course module(s) that contain the pattern descriptions.
3. Visit the [matrix page](#) in this document for the program that the course module is part of.
4. Using the matrix, locate the course that the module belongs to.
5. Access the course via: [www.arcitura.com/courses](http://www.arcitura.com/courses)



To learn more about how Arcitura courses are comprised of course modules that are organized into tracks, watch the informational videos at: [www.youtube.com/@arcitura](http://www.youtube.com/@arcitura)

AI Patterns					X	X	X			X			X			X
Big Data Patterns										X						X
Blockchain Patterns		X								X						
Cloud Architecture Patterns	X															
Cloud Security Patterns																
Cloud Storage Patterns																
Cloud Virtualization Patterns																
Containerization Patterns																
Data Science Patterns				X	X		X					X		X	X	X
IoT Patterns			X							X						
Machine Learning Patterns				X										X		
Microservice Architecture Patterns																
Quantum Computing Patterns													X			
RPA Patterns						X				X						
Service API Patterns																
Service Security Patterns																
SOA Analysis Patterns																
SOA Architecture Patterns																
Technology Architecture Patterns	X	X	X			X				X	X	X	X	X	X	X

*\*This course module is coming soon*

[illegible]

# MECHANISMS-COURSE MODULE MAPPING REFERENCE POSTER

## How to use this poster:

1. Locate the type of mechanisms are you are looking for in the first column.
2. Find the course module(s) that contain the mechanism descriptions.
3. Visit the matrix page in this document for the program that the course module is part of.
4. Using the matrix, locate the course that the module belongs to.
5. Access the course via: [www.arcitura.com/courses](http://www.arcitura.com/courses)



To learn more about how Arcitura courses are comprised of course modules that are organized into tracks, watch the informational videos at: [www.youtube.com/@arcitura](https://www.youtube.com/@arcitura)

	Digital Transformation Professional Academy									
	Module 03 Fundamental Cloud Computing	Module 06 Cloud Architecture	Module 07 Blockchain Architecture	Module 08 IoT Architecture	Module 12 Advanced Big Data Analysis & Analytics	Module 16 Advanced Cybersecurity	Module 17 Fundamental RPA	Module 02 Blockchain Technology & Architecture	Module 02 IoT Technology & Architecture	Module 01 Fundamental Cybersecurity
Big Data Mechanisms				X						
Blockchain Mechanisms		X						X		
Cloud Computing Mechanisms	X	X								
Cloud Security Mechanisms										
Cloud Storage Mechanisms										
Cloud Virtualization Mechanisms										
Containerization Mechanisms										X
Cybersecurity Mechanisms								X		
IoT Mechanisms			X					X		
Quantum Computing Mechanisms										X
RPA Mechanisms						X			X	
Service Security Mechanisms										

\*This course module is coming soon





# METRICS-COURSE MODULE MAPPING REFERENCE POSTER

## How to use this poster:

1. Locate the type of metrics are you are looking for in the first column.
2. Find the course module(s) that contain the metric descriptions.
3. Visit the matrix page in this document for the program that the course module is part of.
4. Using the matrix, locate the course that the module belongs to.
5. Access the course via: [www.arcitura.com/courses](http://www.arcitura.com/courses)



To learn more about how Arcitura courses are comprised of course modules that are organized into tracks, watch the informational videos at: [www.youtube.com/@arcitura](https://www.youtube.com/@arcitura)

	Digital Transformation Professional Academy				
	Module 04 Fundamental Blockchain	Module 05 Fundamental IoT	Module 15 Fundamental Cybersecurity	Module 17 Fundamental RPA	
Blockchain Metrics	X				Module 02 DevOps in Practice
Cloud Computing Metrics					
Cloud Governance Metrics					
Cybersecurity Metrics			X		
DevOps Metrics					X
IoT Metrics		X			
Quantum Computing Metrics					
RPA Metrics				X	
Service API Metrics					
Service Governance Metrics					
	Module 01 Fundamental Blockchain	Module 01 Fundamental Blockchain	Module 01 Fundamental Blockchain	Module 01 Fundamental Blockchain	

Next-Gen IT Academy			Cloud Computing School		Service Technology School		
Module 01 Fundamental IoT	Module 01 Fundamental Cybersecurity	Module 01 Fundamental RPA	Module 01 Fundamental Quantum Computing	Module 10 Fundamental Cloud Computing	Module 11 Advanced Cloud Governance	Module 12 Fundamental Service API Design & Management	Module 15 Fundamental Service Governance & Project Delivery
			X				
				X	X		
X							
		X					
	X						
					X		
						X	

# 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

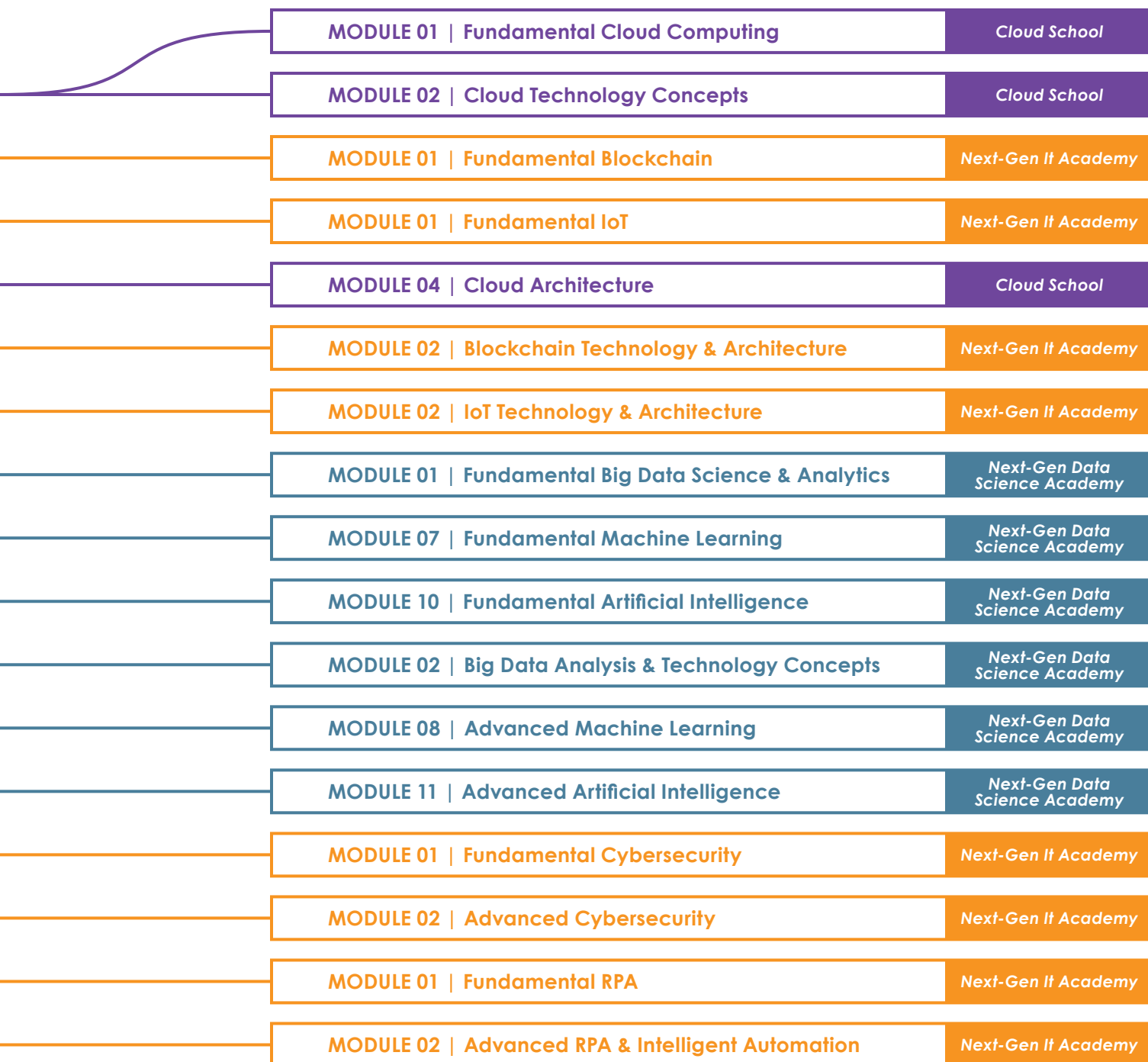
MODULE 16 | Advanced Cybersecurity

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.

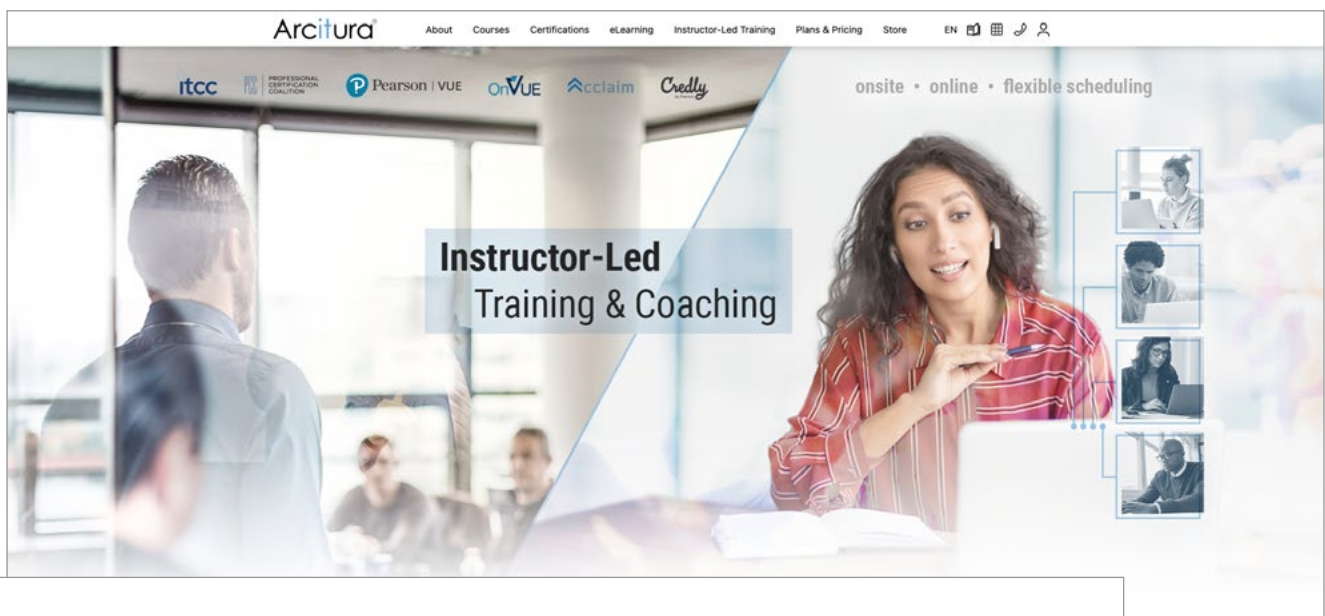


# INSTRUCTOR-LED TRAINING & COACHING

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.

Learn more at:

[www.arcitura.com/training](http://www.arcitura.com/training)



## 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.

## QUESTIONS?

Contact us at: [info@arcitura.com](mailto:info@arcitura.com)

## 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 OnVUE online proctoring and 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.

