DIGITAL TRANSFORMATION

Training & Certification Guide



About the Digital Transformation Professional Academy

The Digital Transformation Professional Academy from Arcitura provides formal education and accreditation programs dedicated to industry-standard Digital Transformation. 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.

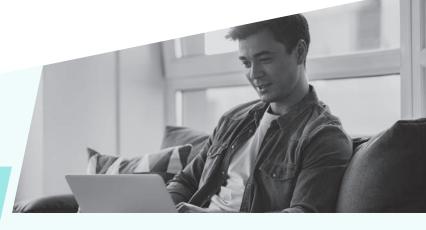
The Digital Transformation Professional Academy curriculum is comprised of 20 course modules and 9 certification tracks. Several of the certification tracks leverage courses in other Arcitura programs. Exams are available worldwide via Pearson VUE testing centers, as well as via Pearson VUE OnVue online 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.

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HOW TO TAKE THIS COURSE



ARCITURA ELEARNING OPTIONS



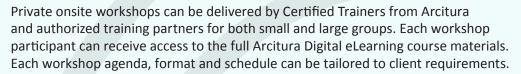
To give you the most flexibility to achieve your learning goals and accommodate your preferences, this course is made available via two Arcitura eLearning solutions: An interactive environment with graded exercises and a graded self-test, as well as a study kit account that supports online/offline access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

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

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



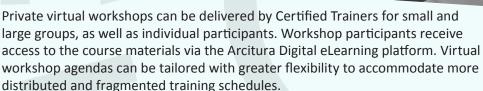
Onsite Workshops



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



Virtual Workshops



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

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

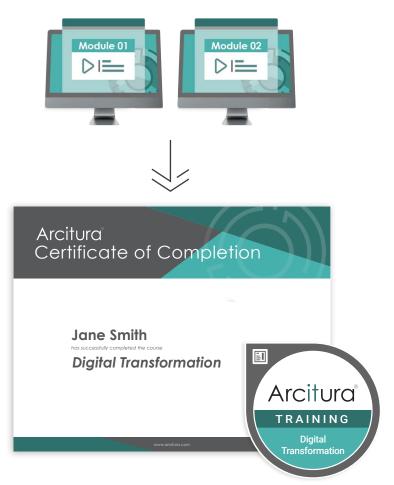












HOW TO GET STARTED

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

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





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.



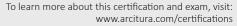
HOW TO GET CERTIFIED

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

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

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

MORE INFO













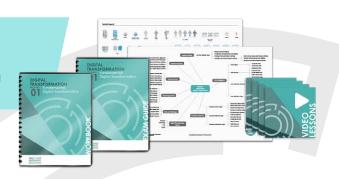
The Digital Transformation course provides a clear understanding of Digital Transformation from both business and technical perspectives and further develop fundamental skills in Digital Transformation practices and technologies.

COURSE MODULE OUTLINES

The Digital Transformation course is comprised of the following course modules. Outlines for these course modules are provided on the subsequent pages.

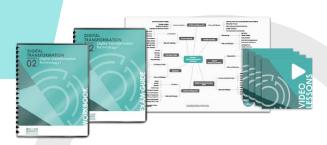


Fundamental Digital Transformation



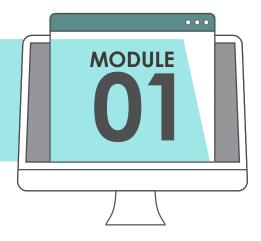


Digital Transformation in Practice





Fundamental Digital Transformation



This course module provides an easy-to-understand introduction to Digital Transformation and how it relates to business, technology, data and people. Coverage includes the benefits, risks and challenges of Digital Transformation, as well as its business and technology drivers.

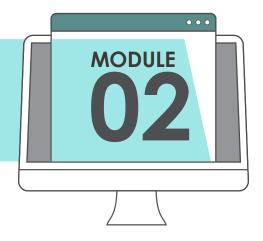
Also explained are the characteristics of building customer-centric automation solutions, along with an insightful exploration of data intelligence origins, sources, methods and utilization types, as well as manual and automated intelligent decision-making delegated to humans and machines.

The following primary topics are covered:

- Understanding Digital Transformation
- Benefits of Digital Transformation
- Challenges of Digital Transformation
- Digital Transformation Business and Technology Drivers
- Understanding Customer-Centricity
- Product-Centric vs. Customer-Centric Relationships
- Relationship-Value Actions and Warmth
- Omni-Channel Customer Interactions
- Customer Journeys and Customer Data Intelligence
- Data Intelligence Basics
- Data Origins and Data Sources
- Data Collection Methods and Data Utilization Types
- Intelligent Decision-Making
- Computer-Assisted Manual Decision-Making and Conditional Automated Decision-Making
- Intelligent Manual Decision-Making vs. Intelligent Automated Decision-Making
- Direct-Driven Automated Decision-Making and Periodic Automated Decision-Making
- Realtime Automated Decision-Making



Digital Transformation in Practice





This course module delves into Digital Transformation automation environments by exploring the key contemporary technologies used to build Digital Transformation automation solutions, including AI, RPA, IoT, machine learning, blockchain, cloud computing and big data.

The module begins by establishing the basic forms of data ingress used to bring data into organizations for use by data science technologies that provide increased data intelligence to both human decision-makers and Aldriven solutions with automated decision-making capabilities.

After covering each of the primary Digital Transformation technologies, the module concludes with a comprehensive, step-by-step description of a business process as carried out by a customer-centric Digital Transformation solution.

The following primary topics are covered:

- Distributed Solution Design Basics
- Data Ingress Basics, including File Pull, File Push, API Pull, API Push and Data Streaming
- An Introduction to Digital Transformation Automation Technologies
- Cloud Computing Basics and Cloud Computing as part of Digital Transformation Solutions
- Common Cloud Computing Risks and Challenges
- Blockchain Basics and Blockchain as part of Digital Transformation Solutions
- Common Blockchain Risks and Challenges
- Internet of Things (IoT) Basics and IoT as part of Digital Transformation Solutions
- Common IoT Risks and Challenges
- Robotic Process Automation (RPA) and RPA as part of Digital Transformation Solutions
- Common RPA Risks and Challenges

- An Introduction to Digital Transformation Data Science Technologies
- Big Data and Data Analytics and Big Data as part of Digital Transformation Solutions
- Common Big Data Risks and Challenges
- Machine Learning Basics and Machine Learning as part of Digital Transformation Solutions
- Common Machine Learning Risks and Challenges
- Artificial Intelligence (AI) Basics and AI as part of Digital Transformation Solutions
- Common AI Risks and Challenges
- Inside a Customer-Centric Digital Transformation Solution (a comprehensive, step-by-step exploration)
- Mapping Individual Digital Transformation Technologies to Solution Processing
- Tracking how Data Intelligence is Collected and Used in a Digital Transformation Solution



TRAINING AND EXAM PREPARATION RESOURCES

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



Certification Exam Prep Kit

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



Digital Course Files

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



Printed Course Materials

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



One-on-One Coaching —

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



Instructor-Led Training

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

DIGITAL TRANSFORMATION PROFESSIONAL ACADEMY



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



NEXT-GEN IT ACADEMY



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







NEXT-GEN DATA SCIENCE ACADEMY



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



CLOUD SCHOOL



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



SERVICE TECHNOLOGY SCHOOL



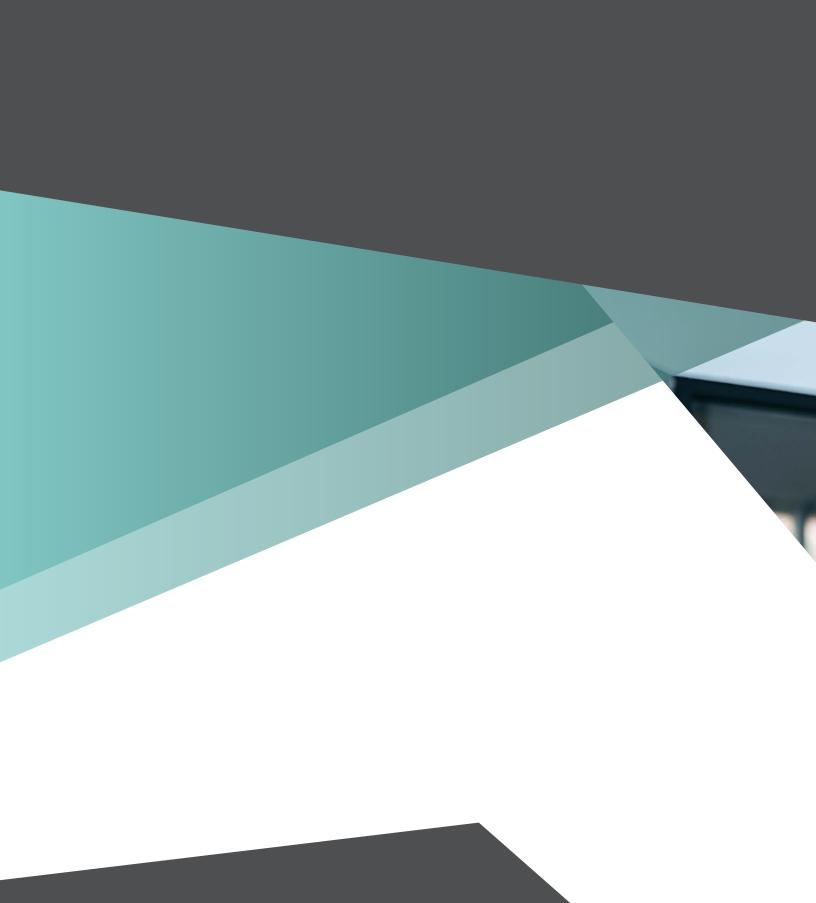
	COURSES	Fundamental Microservices & Service Technology	Fundamental SOA Design with Services & Microservices	SOA Analysis & Modeling with Services & Microservices	Architecture with Services &	Microservice Design & Architecture	Microservice Professional Consulting	Service API Design & Management	Service Governance & Project Delivery	Security for Microservices & SOA
CI	ERTIFICATIONS	Microservice Professional	SOA Professional	SOA Analyst	SOA Architect	Microservice Architect	Microservice Consultant	Service API Specialist	Service Governance Specialist	Service Security Specialist
MODULE 01	Fundamental SOA, Services & Microservices	•	•	•	•	•	•	•	•	•
MODULE 02	Microservice Technology Concepts	•			•	•		•		•
MODULE 03	Design & Architecture with SOA, Services & Microservices		•	•	•				•	
MODULE 04	Fundamental SOA Analysis & Modeling with Services & Microservices			•						
MODULE 05	Advanced SOA Analysis & Modeling with Services & Microservices			•						
MODULE 06	SOA Analysis & Modeling Lab with Services & Microservices			•						
MODULE 07	Advanced SOA Design & Architecture with Services & Microservices				•					
MODULE 08	SOA Design & Architecture Lab with Services & Microservices				•					
MODULE 09	Fundamental Microservice Architecture & Containerization					•	•			
MODULE 10	Advanced Microservice Architecture & Containerization					•				
MODULE 11	Microservice Architecture & Containerization Lab					•				
MODULE 12	Fundamental Service API Design & Management						•	•		
MODULE 13	Advanced Service API Design & Management							•		
MODULE 14	Service API Design & Management Lab							•		
MODULE 15	Fundamental Service Governance & Project Delivery								•	
MODULE 16	Advanced Service Governance & Project Delivery								•	
MODULE 17	Service Governance & Project Delivery Lab								•	
MODULE 18	Fundamental Security for Services, Microservices & SOA						•			•
MODULE 19	Advanced Security for Services, Microservices & SOA									•
MODULE 20	Security Lab for Services, Microservices & SOA									•











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