



# **DxCERTS<sup>SM</sup>**

**IT & NIST Cybersecurity  
Blended Learning Training Curriculum  
& Student Management Platform**

**By**

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## **DxCERTS - IT & NIST Cybersecurity Blended Learning Curriculum and Student Management Platform**

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## **DxCERTS - IT & NIST Cybersecurity Blended Learning Curriculum and Student Management Platform**

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### ***DxCERTS IT & NIST Cybersecurity Blended Learning Curriculum***

Today, due to the ever changing threat landscape created by Digital Transformation (DX) programs (IoT, Mobile, Cloud etc.) and a very sophisticated network of threat actors (i.e., the bad guys) enterprises need to build a workforce capable of engineering, maintaining and improving the best practice frameworks and methodologies required to identify, protect, detect, respond and recover from cyber-attacks.

itSM Solutions NISTCSF.COM is a global consortium of academic, government and industry thought leaders working together to create Digital Transformation (DX) Training Curriculum and Platforms (DxCERTS<sup>SM</sup>) that teach the knowledge, skills and abilities to operationalize the IT and NIST Cybersecurity frameworks, methodologies and technologies created by the **National Institute of Standards and Technologies (NIST), Axelos, ISACA and other internationally recognized institutes and organizations.**

The consortium's focus is to create curriculum and train-trainer-services that will provide an affordable and scalable platform for enterprise HR and Learning and Development organizations to offer these programs as part of its IT & NIST Cybersecurity continuing education program for its employees and supply chain partners.

# DxCERTS - IT & NIST Cybersecurity Blended Learning Curriculum and Student Management Platform

## DxCERTS IT & NIST Cybersecurity Career Curriculum Pathways

itSM Solutions DxCERTS career curriculum pathways enables enterprises of any size to create a workforce capable of operationalizing, maintaining and improving the IT & Cybersecurity frameworks, methodologies and technologies that enable an organization's to identify, protect, detect, respond and recover from cyber-attacks.

DxCERTS Enterprise Curriculum Pathways	Digital Transformation Readiness Framework Curriculum	NIST Cybersecurity & RESILIA Cyber Resilience Framework Curriculum	Digital Service Management & Digital Governance Framework Curriculum	NICE Cybersecurity Workforce Framework Information Security Curriculum	NICE Cybersecurity Workforce Framework Network & System Admin Curriculum	NICE Cybersecurity Workforce Framework Cloud Management Curriculum	NICE Cybersecurity Workforce Framework Software Programming Curriculum	NICE Cybersecurity Workforce Framework Project Management Curriculum	NICE Cybersecurity Workforce Framework Business Skills Curriculum
Pathway Description	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to operationalize the digital transformation best practices outlined in the Digital Transformation Readiness Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to operationalize the cybersecurity and cyber resilience best practices outlined in the NIST Cybersecurity and RESILIA Cyber Resilience Frameworks	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to operationalize the Service Management and Governance best practices outlined in the ITIL and Cobit Frameworks	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the information security workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the networking and administration workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the cloud management workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the application and software development workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the project & program management workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the business skills necessary to communicate and work with the various lines of business within an enterprise
Pathway Roles	DTBF Engineer DTBF Operations Analyst DTBF Business Analyst DTBF Expert Practitioner	NISTCSF Engineer NISTCSF Operations Analyst NISTCSF Business Analyst NISTCSF Risk Management Analyst Cyber Resilience Engineer Cyber Resilience Operations Analyst Cyber Resilience Business Analyst	ITSM Engineer ITSM Operations Analyst ITSM Business Analyst ITSM Expert Practitioner ITSM AGILE Practitioner ITSM Governance Practitioner DEVOPS Practitioner	INFOSEC Engineer INFOSEC Operations Analyst INFOSEC Business Analyst INFOSEC Specialist Ethical Hacker, Pen Tester, Vulnerability Assessor, Forensics Investigator, First Responder, Wireless Network Professional, Auditor, Manager / Officer, Healthcare Professional, Secure Web Analyst, Disaster Recovery Analyst	Microsoft MCSA Microsoft MCSE Cisco CCNA Cisco CCNP VMware Professional CompTIA PC Specialist CompTIA Network Specialist CompTIA Cloud Specialist CompTIA Linux Specialist CompTIA Healthcare Technician	Amazon Web Services Engineer Amazon Web Services Operations Analyst Microsoft Azure Engineer Microsoft Azure Operations Analyst	Software & Application Developer JavaScript Specialist, ASP .NET Specialist, Angular 5 Specialist, SQL Server Specialist, C# Specialist, C++ Specialist, Python Specialist, Rustine Specialist, Ruby Specialist, Hadoop Specialist, PHP Specialist, RESTful Specialist, Bootstrap Specialist, Selenium Specialist	Project Management Professional SCRUM Professional AGILE Professional RISK Management Professional	Enterprise Business Skills Cybersecurity Awareness, Operating Systems, SharePoint, Internet & Core Computing, Legal, Web Design, Accounting, Social Media, Human Resources, Communication Skills, Time Management Skills, Thinking Critical, Business Etiquette, Customer Service
Certification Bodies	APMG International	APMG International Axeion / Peoplecert	Axeion / Peoplecert ISACA	CompTIA ISC2 ISACA MIL2	CompTIA Microsoft Cisco Vmware	Amazon Microsoft	Various	Project Management Institute (PMI) Axeion SCRUMstudy	Various
Alignment with NICE Cybersecurity Workforce Categories	Oversee & Govern	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Oversee & Govern	Oversee & Govern

[Click here](#) to see or download our course catalog

[Click here](#) to learn more about our Curriculum Licensing & TTT programs.

[Click here](#) to read NICE Cybersecurity Workforce Framework Publication

## DxCERTS Curriculum Delivery Formats

- Video Led Training with Blended Courseware (Video + Book), Testing & Mentoring
- Video Led Training with Blended Courseware (Video + Book), Testing, Mentoring & Instructor Review

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

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- Instructor Led Onsite or Online Public Open Enrollment Training Classes with Blended Courseware
- Instructor Led Onsite or Online Team Training Classes with Blended Courseware

### *DxCERTS Enterprise Subscription Program*

The DxCERTS enterprise subscription program provides enterprises of any size access to itSM's complete line of IT and NIST Cybersecurity blended learning training programs and online LMS services for one low annual fee.

This affordable, easy to use training and management program not only helps organizations get the right training to the right person at the right time but also equips management teams (HR, Learning & Development and Department Managers) with the management and reporting platform necessary to ensure a successful training outcome for both the student and employer.

DxCERTS <sup>SM</sup> Enterprise				
IT & NIST Cybersecurity Enterprise Training Curriculum & Learning Management System				
Subscription Options: 1 to 3 Year Subscription Options		Management Options: Client Branded Portal with Student Monitoring & Reporting		
Hosting Options: itSM Solutions or Client Hosted		Training Options: Individual or Organizational Transformation Trainings		
On-Demand	Individual or Group Career Pathway Programs			
<b>Accredited Programs</b>  > 250+ certification training videos > Digital Courseware > Online Mentoring > Online Learner Management > Certificate of Completion > Continuing Ed Credits	<b>Video Learning &amp; Quizzes</b> 	<b>Digital Courseware</b> 	<b>Cybersecurity Management</b> 	NIST CSF    ISC*    CompTIA    ISACA    MILE2
	<b>Checkpoints &amp; Sample Papers</b> 	<b>Multi-touch learning</b> 	<b>Online Mentoring &amp; Learner Management</b> 	<b>Service &amp; Project Management</b> 
			<b>Networking &amp; Cloud Mgmt.</b> 	Microsoft    Cisco    CompTIA    VMware    CSA
			<b>Software Programming</b> 	C+    C++    Java    Python    Ruby
			<b>Business Skills</b> 	Microsoft Office    HR    Legal    Finance    Social Media
Global Reach	Customization and New Program Development Options			

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### **DxCERTS Enterprise Procurement Options**

This low-cost subscription program also provides academia and enterprises with multiple procurement options including:

#### **Enterprises**

- One, two and three year subscription options that reduce the number of “Not Approved” budget cycles for mission critical workforce training
- Students can purchase the subscription by credit card and expense their training thereby eliminating the RFP/Budget process altogether
- Enterprises can use employee continuing education benefit monies from HR or apprenticeship monies from the government to fund the training

#### **Academic Institutions**

- Students can purchase a multi-year discounted subscription that aligns with the length of their academic program or career
- The university can do a bulk volume purchase for all the students in its IT or Cybersecurity degree program using Federal or State grant or apprenticeship monies.

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### **DxCERTS Program Benefits**

Listed below are the five reasons your university, training company or enterprise learning and development organization should partner with itSM Solutions for its DxCERTS IT & NIST Cybersecurity blended learning curriculum subscription program.

- **DxCERTS career pathway programs are aligned with the industry leading IT & Cybersecurity frameworks** and methodologies being adopted and operationalized by enterprises across the globe. These frameworks include the NIST Cybersecurity Framework, NICE Cybersecurity Workforce Framework, ITIL, RESILIA, Cobit and the Digital Transformation Readiness framework. DxCERTS NIST Cybersecurity Framework certification training programs created in partnership with UMass Lowell was recently featured in the National CyberWatch Center 2018 Innovations in Cybersecurity Education magazine.
- **DxCERTS enterprise subscription program** enables organizations to affordably configure an IT & Cybersecurity career pathway training program for all employees.
- **DxCERTS flexible delivery options** enable the program to be adapted to any organizational structure and training schedule

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- **DxCERTS online LMS Student Monitoring, Mentoring & Reporting** platform ensures a successful outcome for both the student and employer
- **DxCERTS online instructor Train-the Trainer** program enables enterprises to quickly stand-up its own delivery and mentoring force

### ***NISTCSF.COM Curriculum Consortium Partners***

The following companies have come together to provide the operational infrastructure to support the NISTCSF.COM curriculum consortium.

#### **Reseller Partners**

NISTCSF.COM has partnered with academic and private institutions to deliver the NISTCSF.COM assessment and workforce development programs. Inaugural partners include New Horizons Computer Learning Centers, LRS Education Services, University of West Florida, Bryant University, GRC Sphere and Babbage Simmel.

#### **Print and Digital Book Distribution**

NISTCSF.COM has partnered with Arvato Training & Education Services a global eCommerce platform an integrated eReader application which delivers print and digital book versions of the NISTCSF.COM curricula to students anywhere in the world. Arvato is currently the exclusive delivery partner for Microsoft training and consulting education solutions worldwide.



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### **Platform Partners**

NISTCSF.COM has partnered with leading Assessment, Learning Management and Simulation platform companies to deliver affordable training solutions for today's cyber enterprise. Inaugural partners include Career Academy and CyberSaint.

### **Authoring Partners**

NISTCSF.COM's inaugural program NIST Cybersecurity Framework – Controls Factory Model™ (NCSF-CFM), was built in partnership with UMass Lowell (UML) a NSA/DHS National Center of Academic Excellence in Cyber Defense Research (CAE-R). NISTCSF.COM has since formed strategic partnerships with Axelos creator of the ITIL®, RESILIA® and PRINCE2 frameworks & methodologies, ISACA creator of the COBIT framework, The Institute for Digital Transformation creator of the Digital Enterprise Readiness Framework (DERF) and other academic and private industry partners to build out the rest of the NISTCSF.COM portfolio.

### **Publishing Partners**

NISTCSF.COM has partnered with itSM Solutions to create assessment, remediation, certification and simulation training solutions for today's cyber enterprise

### **Accreditation Partners**

NISTCSF.COM has partnered with APMG for content accreditation and exam delivery services.

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### ***Summary***

Three things are certain: first, digital services are now at the center of most businesses; second, business is a moving target, third organizations are under attack from those trying to steal the information companies rely on for daily business operations and revenue.

The itSM Solutions DxCERTS training curriculum and student management system enables enterprises of any size to create a workforce capable of identifying, protecting, detecting, responding and recovering from cyber-attacks.

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### ***About itSM Solutions LLC***

itSM Solutions LLC is an accredited content publishing company specializing in the creation of assessment, certification and skills training content for Information Technology (IT) and NIST Cybersecurity professionals. itSM's training solutions have been adopted by the who's who of industry including HPE, Microsoft, Disney, Cisco, IRS, Navy, Lowes, Staples, Genzyme, Boeing, Intel, Molina Healthcare and many others.

itSM Solutions is also the founder of NISTCSF.COM a global consortium of academic, government and industry thought leaders working together to create Cybersecurity training programs that help organizations operationalize, maintain and improve the frameworks and methods created by the National Institute of Standards & Technologies (NIST), the National Institute of Cybersecurity Education (NICE) and other internationally recognized institutes and standards organizations. The consortium's goal is to provide academia and enterprises with an affordable and scalable way to train, skill and certify today's Cybersecurity workforce.

### ***About the Authors***

**David Nichols** is the President and CEO of itSM Solutions LLC, an ITSM consulting and training company. He has over 40 years experience in Information Technology. As an early adopter of the IT Service Management processes as described in the IT Infrastructure Library (ITIL), he has utilized his hardware and software engineering background as a foundation for implementing sweeping changes in how IT Services are delivered at several fortune 100 companies in the US. Working closely with the executive management teams, David has helped the strategic goals of the IT organization with those of the company and develop a more effective IT Strategy. Strategies that are customer focused, process-oriented and cost/performance optimized, and help business and IT organization establish the value of IT Services. David holds ITSM Service Manager certification.

**Rick Lemieux** is a managing partner and the Vice President of Business Development. He is responsible for overseeing the company's Sales, Marketing & Business Development programs. Rick has been involved in selling IT solutions for the past 30 years. Prior to itSM, Rick, an early proponent of ITSM and ITIL, led the Sales and Business Development teams at software companies focused on automating the best practices guidance outlined in ITIL. Rick holds a Foundation Certificate in IT Service Management and was recently identified as one of the top 5 IT Entrepreneurs in the State of Rhode Island by the TECH 10 awards.