



DxCERTSSM

**IT & NIST Cybersecurity Workforce Development
Training Curriculum & Management Program**

By

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DxCERTS - IT & NIST Cybersecurity Workforce Development Training Curriculum & Management Program

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DxCERTS - IT & NIST Cybersecurity Workforce Development Training Curriculum & Management Program

DxCERTS IT & NIST Cybersecurity Training 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) IT and Cybersecurity Training Curriculum (**DxCERTSSM**) that teaches the knowledge, skills and abilities to operationalize the frameworks and methodologies created by the National Institute of Standards and Technologies (NIST) and other internationally recognized institutes and organizations.

The consortium's focus is to create licensable assessment, curriculum and train-trainer-services that will provide an affordable and scalable way for other academic and commercial institutions to offer these programs as part of their IT & Cybersecurity workforce development program.

DxCERTS Training Curriculum Catalog

itSM Solutions NISTCSF.COM role-based curriculum solutions enable's enterprises to build a workforce capable of operationalizing, maintaining and improving IT & Cybersecurity best practice

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frameworks, methodologies and technologies across an enterprise and its supply chain.

[Click here](#) to learn more about our Curriculum Licensing and Train-the-Trainer programs.

[Click here](#) to read NIST Special Publication 800-181 – NICE Cybersecurity Workforce Framework.

NISTCSF.COM UMass Lowell NIST Cybersecurity Framework NCSF-CFM certification training programs were recently featured in the [National CyberWatch Center 2018 Innovations in Cybersecurity Education magazine.](#)

Curriculum Tracks

	NIST & NICE Cybersecurity Workforce Framework Curriculum	Service Management & IT Governance Framework Curriculum	Cyber Resilience Framework Curriculum	Digital Transformation Framework Curriculum	Networking & System Administration Curriculum	Cloud Management Curriculum	Software Programming Curriculum	IT Project Management Curriculum	General Business Skills Curriculum
DxCERTS Program Summary	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize NIST and NICE Cybersecurity Framework best practices across an organization and its supply chain.	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize IT Service Management best practices across an organization and its supply chain.	This DxCERTS cyber resilience and mentoring program teaches the knowledge, skills and abilities to operationalize cyber resilience best practices across an organization and its supply chain.	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize digital transformation best practices across an organization and its supply chain.	This DxCERTS training and mentoring program teaches an enterprise workforce the knowledge, skills and abilities to operationalize network & system administration capabilities across an organization and its supply chain.	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize cloud management best practices across an organization and its supply chain.	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize application & software development best practices across an organization and its supply chain.	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize project management best practices and methodologies across an organization and its supply chain.	This DxCERTS training and mentoring program teaches the knowledge, skills and abilities to operationalize business skill best practices across an IT organization.
NIST/NICE Category Alignment	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Oversee & Govern	Oversee & Govern
DxCERTS Training Curriculum	<ul style="list-style-type: none"> Introduction to NIST Cybersecurity Framework Introduction to NICE Cybersecurity Workforce Framework Operationalizing NIST Cybersecurity Framework Operationalizing NICE Cybersecurity Workforce Framework Operationalizing IT Service Management Operationalizing Cyber Resilience Operationalizing Digital Transformation Operationalizing Network & System Administration Operationalizing Cloud Management Operationalizing Application & Software Development Operationalizing Project Management Operationalizing Business Skills 	<ul style="list-style-type: none"> Introduction to IT Service Management Operationalizing IT Service Management 	<ul style="list-style-type: none"> Introduction to Cyber Resilience Operationalizing Cyber Resilience 	<ul style="list-style-type: none"> Introduction to Digital Transformation Operationalizing Digital Transformation 	<ul style="list-style-type: none"> Introduction to Network & System Administration Operationalizing Network & System Administration 	<ul style="list-style-type: none"> Introduction to Cloud Management Operationalizing Cloud Management 	<ul style="list-style-type: none"> Introduction to Software Programming Operationalizing Software Programming 	<ul style="list-style-type: none"> Introduction to IT Project Management Operationalizing IT Project Management 	<ul style="list-style-type: none"> Introduction to General Business Skills Operationalizing General Business Skills

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Curriculum Delivery Formats

- **Video Instructor Led** Self-Paced Video Training with Online Mentoring
- **Video Instructor Led** Self-Paced Blended Team Training with Self-Paced Videos and Digital Courseware plus
- **Instructor Led Online** or Onsite Review Sessions
- **Instructor Led Onsite** Public Open Enrollment Training Classes with Digital Book or Print Courseware
- **Instructor Led Onsite** Team Training Classes with Digital Book or Print Courseware
- **Instructor Led Onsite** Team Training with Self-Paced Videos and Digital Courseware
- **Instructor Led Virtual** Public Open Enrollment Training Classes with Digital Book or Print Courseware
- **Instructor Led Virtual** Team Training Classes with Digital Book or Print Courseware

Curriculum Benefits

- **NIST & NICE Aligned** Curriculum
- **Role Based Training Curriculum** – With a focus on Engineering, Operations, Specialty Role & Risk Management professionals
- **Accredited, White Label**, Print, Digital Book and Video Curriculum
- **Cyber Range Skills Training** Programs and Advisory Services
- **100% Priced Right** (no student left behind)

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- **Client Branded Learning Management System (LMS)** for Student Enablement, Mentoring & Reporting Services
- **Instructor Led Delivery or Mentoring Sessions** can be added to any program
- **Instructor Train-the Trainer Sessions** delivered online – no travel required
- **Workforce Planning** and Launch Services
- **New Curriculum Planning** and Development Services

Career Pathway Programs

- **Cybersecurity Management** (NIST Cybersecurity Framework, NIST 800-171 etc.)
- **Cyber Resilience Management (RESILIA)**
- **IT Service Management (ITIL V3, ITIL V4)**
- **IT Governance Management (COBIT5)**
- **IT Project Management (PMP, PRINCE2, SCRUM, AGILE)**
- **Software & Application Launch Management (DEVOPS & DEVSECOPS)**
- **Cloud Management (AMAZON, AZURE etc.)**
- **IoT (Awareness & Practitioner)**
- **Enterprise Digital Transformation Management (IDT Foundation & Practitioner)**
- **Enterprise AGILITY Management (AGILEshift)**
- **Enterprise RISK Management (FAIR Institute)**
- **Cybersecurity Workforce Development (NICE Cybersecurity Workforce Framework)**

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- **Cloud Security** (Cloud Security Alliance)
- **Information Security** (CISSP, CISA, CISM, Security+, Ethical Hacker etc.)
- **Secure Coding** (Software & Application Development)
- **Software Development** (C+, C++, JAVA, PYTHON, RUBY, ANGULAR 5, ASP.NET etc.)
- **Network Engineering** (Microsoft, Cisco, CompTIA & VMware)
- **Microsoft Office** (Office 365, SKYPE, Lync, Word, PowerPoint, Excel etc.)
- **Business Skills** (Communication Skills, Social Media, Accounting, Legal, HR etc.)

DxCERTS “All Access” Enterprise Subscription Program

The DxCERTS “All Access” enterprise subscription program enables enterprises of any size to assign to its organization the NIST/NICE IT and Cybersecurity training programs required to learn the knowledge, skills and abilities to identify, protect, detect, respond and recover from cyber-attacks.

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 at the right price but also equips management teams (HR, Learning & Development and Department Managers) with the management and reporting tools necessary to ensure a successful training outcome for both the student and employer. The DxCERTS “All Access” subscription program also provides enterprises with the capability to create the “workforce skills report”

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that might be required during an internal or governmental audit of an organizations IT and Cybersecurity workforce.

DxCERTSSM “All Access”

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						
<p style="text-align: center;">Accredited Programs</p>  <ul style="list-style-type: none"> > 250+ certification training videos > Digital Courseware > Online Mentoring > Online Learner Management > Certificate of Completion > Continuing Ed Credits 	<p>Video Learning & Quizzes</p> 	<p>Digital Courseware</p> 	<p>Multi-touch learning</p>			<p>Checkpoints & Sample Papers</p> 	<p>Online Mentoring & Learner Management</p> 
Global Reach	Customization and New Program Development Options						

Cybersecurity Management	NIST CSF	ISC ²	CompTIA	ISACA	MILE2
Service & Project Management	ITIL	COBIT	RESILIA	PMI	AGILE/ SCRUM
Networking & Cloud Mgmt.	Microsoft	Cisco	CompTIA	VMware	CSA
Software Programming	C+	C++	Java	Python	Ruby
Business Skills	Microsoft Office	HR	Legal	Finance	Social Media

Disney

Getting widespread adoption of a new method or way of working in such a large organization is no mean feat. ‘With over 700 domestic IT cast, we simply can’t adopt large-scale change overnight,’ he explains. ‘Where I talk about best practice and ITIL integration, at the start of the process, the staff only know how we do business. They are unaware of both ITIL and our interest in it. The first step is to make them part of Disney’s ITIL® Journey.

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[Click here](#) to learn more about the enterprise program we built for Disney

Internal Revenue Service (IRS)

Rick Lemieux from itSM Solutions was involved in helping the IRS roll out its ITIL training programme from the beginning. 'ITIL V3's focus on continual service improvement and putting the customer first fit well with the IRS's objectives, so we took some time educating the executive teams on the benefits of ITIL V3. This wasn't a hard sell because everyone could see the synergy there but understanding the fit doesn't mean you can roll it out instantly.

[Click here](#) to learn more about the enterprise program we built for the IRS.

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.

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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.

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.

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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.

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 learning 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.