NISTCSF.COM

IT & NIST Cybersecurity Curriculum & Mentoring Programs

By

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IT & NIST Cybersecurity Curriculum & Enterprise Mentoring Programs

Today, due to the ever-changing threat landscape created by Mobile Computing, Cloud, the Internet of Things (IoT) 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 IT & NIST Cybersecurity frameworks and methodologies 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 a role-based IT and Cybersecuity curriculum that teaches organizations the knowledge, skills and abilities to operationalize the frameworks and methodologies created by the National Institute of Standards & Technologies (NIST) and other internationally recognized institutes and organizations.

The consortium's goal is to create curriculum that will enable an affordable and scalable way to train today's IT and NIST Cybersecurity workforce.

IT & NIST Cybersecurity Frameworks & Methodologies

NISTCSF.COM Best Practice Frameworks and Methodologies curriculum areas include.

NIST Cyber Security Framework provides guidance and training's on how enterprises can proactively manage and improve its Cybersecurity risk by operationalizing the controls (Center for Internet Security) and management systems (ISO 27001, NIST 800-53 etc.) outlined in the framework.

NICE Cybersecurity Workforce Framework provides guidance and training's on how enterprises can proactively manage and improve its IT and Cybersecurity workforce by following the guidance outlined in the framework.

RESILIA™ Cyber Resilience Framework provides guidance and training's on how digital enterprises can proactively manage and improve a cyber service portfolio in terms of business resiliency and recovery.

ITIL® Service Management Framework provides guidance and training's on how digital enterprises can proactively manage and improve a cyber service portfolio in terms of agility, development, operations, cost, quality and compliance.

COBIT Governance Framework provides guidance and training's on how digital enterprises can proactively manage and improve a cyber service portfolio in terms of risk policies and controls.

ISO/IEC 20000 Service Management Framework provides guidance and training's for service provider to plan, establish, implement,

operate, monitor, review, maintain and improve a Service Management System (SMS). The requirements include the design, transition, delivery and improvement of services to fulfill agreed service requirements.

Digital Enterprise Readiness Framework provides guidance and training's on how digital enterprises can manage and improve a cyber business in terms of operational sustainability, organizational agility, strategic agility, and operating within a disruptive culture.

Cloud Security Alliance Framework provides guidance on how digital enterprises can adopt the cloud paradigm safely and securely.

DEVSECOPS Framework provides guidance and trainings on how to automate the processes between software development and IT teams, in order that they can build, test, and release secure software faster and more reliably.

FAIR Value at Risk (VaR) Framework provides guidance and trainings on a best practice approach to measure, manage and report on information risk from the business perspective.

Software & Application Testing Methodology provides guidance and training's on how digital enterprises can make software systems and applications safer regardless of their operating environment (web, IoT, Cloud)

PMI PMBOK Framework & PRINCE 2® Project Management provide guidance and training's on how digital enterprises can improve the success of its cyber service projects by using knowledge and techniques that result in desired business outcomes.

IT & NIST Cybersecurity Role-Based Curriculum Catalog

itSM Solutions NISTCSF.COM role-based curriculum solutions enable's enterprises to build a workforce capable of operationalizing, maintaining and improving IT & NIST Cybersecurity best practice frameworks and methodologies across an enterprise and its supply chain.

IT Service, Project, Cybersecurity & Cloud Mgmt. Training				IT Networking, Programming & INFOSEC Training			Business & Cyber Skills Training	
IT Service Management	IT Project Management	Cybersecurity Management	IT Cloud Management	Software Programming	IT Networking	Information Security	Microsoft Office Skills	General Business Skills
27 Courses	17 Courses	15 Courses	11 Courses	24 Courses	45 Courses	30 Courses	68 Courses	31 Courses
ITIL V3	PMI	NIST CSF	AZURE	C+	Microsoft	ISC2	O365 END USER	HR
ITIL V4	PRINCE2	NIST 800-171	AWS	C++	Cisco	ISACA	O365 ADMIN	LEGAL
RESILIA	AGILE	COBIT	COMPTIA	JAVA	COMPTIA	COMPTIA	O365 SHAREPOINT	ACCOUNTING
COBIT	SCRUM	ISO27001	SHAREPOINT	PYTHON	VMware	MILE2	O365 WEB APPS	CYBERSECURITY
ISO20000		FAIR VaR	SQL SERVER	RUBY		CyberSec First	WORD	IOT Awareness
DEVOPS		DEVSECOPS	CLOUD SECURITY	ANGULAR 5		Responder	EXCEL	SOCIAL MEDIA
DIGITAL READINESS				ASP.NET		IoT	POWERPOINT	COMMUNICATIONS
AGILEshift				HADOOP			OUTLOOK	COMPUTERS
SAFe				PERL			ACCESS	INTERNET
				SQL 2014			PROJECT	SHAREPOINT
				RESTFUL			LYNX	PROJECT MGMT.
				SELENIUM			DATA ANALYSIS	
				BOOT STRAP				
				SECURE CODING				

Note: Items in RED are in the planning or development stage

NISTCSF.COM Curriculum Benefits Include:

- **100% Online** Using Video and Digital Book Content (print books available upon request)
- **100% Priced Right** (no student left behind)

- **Role Based Training** – With a focus on Engineering, Operations, Specialty Role & Risk Management professionals
- **Learning Management System (LMS)** Student Mentoring & Monitoring Services to ensure successful training & business outcomes
- I**nstructor Led Delivery** or Review Sessions can be added to any program if required
- **Enterprise Mentoring** Planning and Launch Services
- **Partner Sales & Marketing** Planning and Launch Services
- **New Curriculum Development** Planning and Development Services
- **Our UMass Lowell NIST Cybersecurity Framework certification training programs (NCSF-CFM)** were recently recognized in the National CyberWatch Center 2018 Innovations in Cybersecurity Education magazine.

NISTCSF.COM enables students to become Trained, Skilled & Certified in the following IT and Cybersecurity practice areas:

- Cybersecurity Management (NIST)
- Cyber Resilience Management (RESILIA)
- IT Service Management (ITIL)
- IT Governance Management (COBIT)
- IT Project Management (PMI, PRINCE2)
- DEVOPS & DEVSECOPS
- Cloud Management (AMAZON, AZURE)
- Enterprise Digital Transformation Management (IDT)
- Enterprise AGILITY Management (AGILEshift)
- Enterprise RISK Management (FAIR)

- Cybersecurity Workforce Development (NICE)

- Cloud Security (CSA)

- Information Security (CompTIA etc.)

- Secure Coding (Security Innovations)

- Software Development (C, Java etc.)

- Network Engineering (CompTIA etc)

- Microsoft Office (Office 365 etc.)

- Business Skills (Accounting, Legal etc.)

NISTCSF.COM Enterprise Mentoring Program

NISTCSF.COM's enterprise mentoring program is a five-phase approach to organizational change based on the key principles outlined in Kotter's eight step change process for organizational transformation.

The mentoring program provides enterprises with a structured model on how to profile the knowledge and skills of their IT & Cybersecurity workforce and then map that profile to a series of role based training programs designed to create a workforce capable of engineering, maintaining and improving the IT & NIST Cybersecurity frameworks and methodologies an organization needs to identify, protect, detect, respond and recover from cyber-attacks.

This easy to use model helps organizations get the right training to the right person at the right time by identifying and justifying anticipated IT &

Cybersecurity training needs. The NISTCSF program ensures a successful outcome for both the student and employer.

The five phases of the NISTCSF.COM program are:

Phase 1 – Executive Team Training

Organization Role	Objective	Training Programs
CEO, CFO, CIO, CISO CRO, CCO, PMO Director, SMO Director, Governance Director	To help the executive team understand the benefits associated with operationalizing a IT & Cybersecurity program	Executive Overview Executive Simulations Digital Readiness Training

IT & NIST Cybersecurity executive training programs are designed to help the executive team:

- **Understand** the benefits of adopting an IT & Cybersecurity best practice program
- **Understand** the value of Organization Digital Readiness
- **Secure** funding for the IT & Cybersecurity program
- **Select** a leadership team to drive and continually improve the IT & Cybersecurity program

Phase 2 – Program Leadership Team Training

Organization Role	Objective	Training Programs
Practice Owners, Service Owners, Change Mgrs. Operation Mgrs. CSI Mgrs. Business Analysts	To help the leadership team acquire the knowledge and skills to develop an actionable IT & Cybersecurity plan	Assessment Training NCSF Assessment Training Digital Readiness Training Planning to Change Workshop Internet of Things Training ITIL® Training RESILIA Training Prince 2 Training NIST Cybersecurity Training Simulations

IT & NIST Cybersecurity leadership training programs are designed to help the leadership team acquire a systemic structure for thinking and planning and the skills to:

- **Become** thought leaders for the IT & Cybersecurity program
- **Understand** the value of Digital Readiness
- **Perform the Assessment** to identify and document IT & Cybersecurity Gaps
- **Organize and Condition** the enterprise for IT & Cybersecurity

Phase 3 – Enterprise Awareness & Readiness Training

Organization Role	Objective	Training Program
All IT staff, senior leadership, stakeholders and supply chain partners	To help condition the enterprise for IT & Cybersecurity change through a series of online awareness and simulation trainings	Awareness Simulations Digital Readiness Training

IT & NIST Cybersecurity enterprise training programs enable business stakeholders and supply chain partners to:

- **Understand** the IT & Cybersecurity program and its value to the organization in terms of improving the quality, risk and security of an enterprise digital service portfolio
- **Understand** the value of Digital Readiness

Phase 4 – Practitioner Training

Organization Role	Objective	Training Programs
1st Line Mgrs. Practice & Service Owners Architects & Strategists Operation & System, Analysts Business & Quality Analysts Program & Project Managers Operation & Change Mgrs. Service Level & CSI Mgrs. Tool Administrators	To provide the IT & Cybersecurity practitioners the knowledge and skills to plan, design, implement, operate and improve a IT & Cybersecurity program.	NIST Cybersecurity Framework Training NIST Cybersecurity Employee Training NICE Cybersecurity Workforce Trainings Internet of Things Training ITIL Trainings RESILIA Trainings Prince 2 Trainings ISO 27001 Training Cobit Training Simulation Trainings

IT & NIST Cybersecurity training programs enable the IT and Cybersecurity organizations to acquire the knowledge, skills and abilities to:

- **Plan, Design, Implement, Operate and Improve** an IT & Cybersecurity program

Phase 5 – HR Policy & Procedure Training

Organization Role	Objective	Activities
HR Manager	To establish HR policies and procedures for training new employees and a career pathway for existing employees practicing IT & Cybersecurity	Setup both eLearning and role-based Blended Learning IT & Cybersecurity best practice training solutions for new and existing employees

IT & NIST Cybersecurity HR training programs help HR departments to:

- **Establish** policies and procedures for training new employees
- **Identify** career pathways for existing IT & Cybersecurity practitioners.

NISTCSF.COM Curriculum & Mentoring 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.

Platform Partners

NISTCSF.COM has partnered with leading Assessment, Learning Management and Simulation platform company's 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.

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 NISTCSF.COM role-based training curriculum and workforce development planning & mentoring program enables enterprises of any size to create a workforce capable of identifying, protecting, detecting, responding and recovering from cyber-attacks.

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.