



DxCERTS™

IT & Cybersecurity Training Solutions

By

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Introduction

Three things are certain in today's business world: first, **digital services** are now at the center of all businesses; second, business is a moving target and third businesses are under attack from those trying to steal the critical information companies rely on for daily business operations and revenue generation.

The demand for a proactive, collaborative and balanced approach for managing, securing and improving digital services across stakeholders, supply chains, functions, markets, and geographies has never been greater.

To support this new digital service business model, enterprises must train its IT workforce with the best practice knowledge, skills and capabilities to stabilize, optimize, secure and improve an enterprise digital service portfolio.

IT & Cybersecurity Frameworks, Methods and Standards

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 expand its IT workforce development program to include frameworks from the **National Institute of Standards and Technologies (NIST)**, the **National Institute of Cybersecurity Education (NICE)** and others (ISO, ISC², Axelos, ISACA, CompTIA etc.) that teach the knowledge, skills and abilities that help enterprises Identify, Protect, Detect, Respond and Recover from cyberattacks. These frameworks 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.

DEVOPS & DEVSECOPS Framework's 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

DxCERTS™ IT & Cybersecurity Training Solutions

success of its cyber service projects by using knowledge and techniques that result in desired business outcomes.

DxCERTS™ - IT & Cybersecurity Training Solutions

DxCERTS is an enterprise training program designed to equip an IT workforce with the knowledge, skills and abilities to operationalize, maintain and improve IT and Cybersecurity frameworks, methods and standards across an enterprise and its supply chain. A listing of the training programs can be found below.

DxCERTS™ IT Service & Cybersecurity Management Training				DxCERTS™ IT & Development Training			DxCERTS™ Business 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 ITIL V4 RESILIA COBIT ISO20000 DEVOPS DIGITAL READINESS AGILEshift SAE	PMI PRINCE2 AGILE SCRUM	NIST CSF NIST 800-171 COBIT ISO27001 IoT FAIR VaR DEVSECOPS SECURE CODING	AZURE AWS COMPTIA SHAREPOINT SQL SERVER CLOUD SECURITY	C+ C++ JAVA PYTHON RUBY HADOOP PERL ANGULAR 5 ASP.NET SQL 2014 RESTFUL SELENIUM BOOT STRAP	Microsoft Cisco COMPTIA VMware	ISC2 ISACA COMPTIA MILE2	O365 END USER O365 ADMIN O365 SHAREPOINT O365 WEB APPS WORD EXCEL POWERPOINT OUTLOOK ACCESS PROJECT LYNX DATA ANALYSIS	HR LEGAL ACCOUNTING CYBERSECURITY SOCIAL MEDIA COMMUNICATIONS COMPUTERS INTERNET SHAREPOINT PROJECT MGMT.

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

DxCERTS™ Enterprise Training Program

Listed below is a five-phase approach to teaching the knowledge, skills and capabilities to manage the quality and security of a digital enterprise service portfolio.

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 DX program	DX Executive Overview DX Executive Simulations Digital Readiness Training

DxCERTS™ executive training and simulation services are designed to help the executive team to:

- **Understand** the benefits of adopting an Dx program
- **Understand** the value of Digital Readiness
- **Secure** funding for the Dx program
- **Select** a leadership team to drive the Dx 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 DX plan	DX 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 DX Simulations

DxCERTS™ leadership training and simulation services are designed to help the leadership team acquire a systemic structure for thinking and planning and the skills to:

- **Become** thought leaders for the Dx program
- **Understand** the value of Digital Readiness
- **Perform the Assessment** to identify and document DX GAPS
- **Organize and Condition** the enterprise for Dx

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 DX change through a series of online awareness and simulation trainings	DX Awareness DX Simulations Digital Readiness Training

DxCERTS™ enterprise training and simulation services enable the enterprise business stakeholders and supply chain partners to:

- **Understand** the Dx 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 DX practitioners the knowledge and skills to plan, design, implement, operate and improve a DX program.	DX Training 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 DX Simulation Trainings

DxCERTS™ information technology training and simulation services will enable the IT organization to acquire the knowledge and skills to:

- **Plan, Design, Implement, Operate and Improve** a Dx 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 DX	Setup both eLearning and role-based Blended Learning DX best practice training solutions for new and existing employees

DxCERTS™ HR trainings help HR departments to:

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

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.

The itSM Solutions DxCERTS™ training program enables organizations to create a workforce capable of engineering, securing, maintaining, and continually improving an enterprise digital service portfolio.

About itSM Solutions LLC

Founded in 2002, itSM Solutions LLC is the creator of the Digital Service & Security Management (DSSM) model. DSSM is a proactive, collaborative and balanced approach for adopting and adapting the best practices necessary to manage & improve the cost, quality, compliance, security, risk and business continuity of an enterprise digital service portfolio. DSSM suite of training, mentoring and certification solutions enables organizations to adopt and adapt a systemic structure for thinking when planning and designing digital services plus the skills to operate as a service provider integrated into the business value chain.

About the Authors

David Nichols is the President and CEO of itSM Solutions LLC, an ITSM consulting and training company. He has over 25 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 33 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.