

DxCERTSSM

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



Agenda and Objectives

- The Digital Transformation (Dx) Problem
- NISTCSF.COM Cybersecurity Curriculum Consortium
- DxCERTS IT & Cybersecurity Training Curriculum Catalog
- DxCERTS Curriculum Tracks, Delivery Formats, Benefits & Career Pathways
- DxCERTS “All Access” Enterprise Subscription Program

NISTCSF.COM

The Digital Transformation (Dx) Problem

- 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.

NISTCSF.COM

Cybersecurity Curriculum Consortium

- **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

IT & NIST Cybersecurity Training Curriculum Catalog

- itSM Solutions role-based curriculum solutions enables enterprises to build a workforce capable of operationalizing, maintaining and improving IT & Cybersecurity best practice frameworks, methodologies and technologies across an enterprise and its supply chain.
- 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	NIST Cybersecurity Framework (CSF) v2.0 NIST Cybersecurity Framework (CSF) v2.0 - Core NIST Cybersecurity Framework (CSF) v2.0 - Profiles NIST Cybersecurity Framework (CSF) v2.0 - Supplemental Guidance NIST Cybersecurity Framework (CSF) v2.0 - Implementation Tiers NIST Cybersecurity Framework (CSF) v2.0 - Organizational Baseline NIST Cybersecurity Framework (CSF) v2.0 - Organizational Profile NIST Cybersecurity Framework (CSF) v2.0 - Organizational Metrics NIST Cybersecurity Framework (CSF) v2.0 - Organizational Self-Assessment NIST Cybersecurity Framework (CSF) v2.0 - Organizational Gap Assessment NIST Cybersecurity Framework (CSF) v2.0 - Organizational Improvement Plan NIST Cybersecurity Framework (CSF) v2.0 - Organizational Review NIST Cybersecurity Framework (CSF) v2.0 - Organizational Reporting NIST Cybersecurity Framework (CSF) v2.0 - Organizational Communication NIST Cybersecurity Framework (CSF) v2.0 - Organizational Training NIST Cybersecurity Framework (CSF) v2.0 - Organizational Awareness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Culture NIST Cybersecurity Framework (CSF) v2.0 - Organizational Leadership NIST Cybersecurity Framework (CSF) v2.0 - Organizational Governance NIST Cybersecurity Framework (CSF) v2.0 - Organizational Compliance NIST Cybersecurity Framework (CSF) v2.0 - Organizational Ethics NIST Cybersecurity Framework (CSF) v2.0 - Organizational Privacy NIST Cybersecurity Framework (CSF) v2.0 - Organizational Security NIST Cybersecurity Framework (CSF) v2.0 - Organizational Risk NIST Cybersecurity Framework (CSF) v2.0 - Organizational Resilience NIST Cybersecurity Framework (CSF) v2.0 - Organizational Continuity NIST Cybersecurity Framework (CSF) v2.0 - Organizational Recovery NIST Cybersecurity Framework (CSF) v2.0 - Organizational Incident Response NIST Cybersecurity Framework (CSF) v2.0 - Organizational Business Continuity NIST Cybersecurity Framework (CSF) v2.0 - Organizational Disaster Recovery NIST Cybersecurity Framework (CSF) v2.0 - Organizational Crisis Management NIST Cybersecurity Framework (CSF) v2.0 - Organizational Reputation Management NIST Cybersecurity Framework (CSF) v2.0 - Organizational Stakeholder Engagement NIST Cybersecurity Framework (CSF) v2.0 - Organizational Transparency NIST Cybersecurity Framework (CSF) v2.0 - Organizational Accountability NIST Cybersecurity Framework (CSF) v2.0 - Organizational Integrity NIST Cybersecurity Framework (CSF) v2.0 - Organizational Honesty NIST Cybersecurity Framework (CSF) v2.0 - Organizational Fairness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Respect NIST Cybersecurity Framework (CSF) v2.0 - Organizational Compassion NIST Cybersecurity Framework (CSF) v2.0 - Organizational Empathy NIST Cybersecurity Framework (CSF) v2.0 - Organizational Kindness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Gentleness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Patience NIST Cybersecurity Framework (CSF) v2.0 - Organizational Self-Control NIST Cybersecurity Framework (CSF) v2.0 - Organizational Modesty NIST Cybersecurity Framework (CSF) v2.0 - Organizational Humility NIST Cybersecurity Framework (CSF) v2.0 - Organizational Meekness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Mildness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Quietness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Peace NIST Cybersecurity Framework (CSF) v2.0 - Organizational Stillness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Calmness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Quietude NIST Cybersecurity Framework (CSF) v2.0 - Organizational Solitude NIST Cybersecurity Framework (CSF) v2.0 - Organizational Seclusion NIST Cybersecurity Framework (CSF) v2.0 - Organizational Privacy NIST Cybersecurity Framework (CSF) v2.0 - Organizational Secrecy NIST Cybersecurity Framework (CSF) v2.0 - Organizational Confidentiality NIST Cybersecurity Framework (CSF) v2.0 - Organizational Discretion NIST Cybersecurity Framework (CSF) v2.0 - Organizational Restraint NIST Cybersecurity Framework (CSF) v2.0 - Organizational Self-Denial NIST Cybersecurity Framework (CSF) v2.0 - Organizational Humility NIST Cybersecurity Framework (CSF) v2.0 - Organizational Modesty NIST Cybersecurity Framework (CSF) v2.0 - Organizational Quietness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Peace NIST Cybersecurity Framework (CSF) v2.0 - Organizational Stillness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Calmness NIST Cybersecurity Framework (CSF) v2.0 - Organizational Quietude NIST Cybersecurity Framework (CSF) v2.0 - Organizational Solitude NIST Cybersecurity Framework (CSF) v2.0 - Organizational Seclusion NIST Cybersecurity Framework (CSF) v2.0 - Organizational Privacy NIST Cybersecurity Framework (CSF) v2.0 - Organizational Secrecy NIST Cybersecurity Framework (CSF) v2.0 - Organizational Confidentiality NIST Cybersecurity Framework (CSF) v2.0 - Organizational Discretion NIST Cybersecurity Framework (CSF) v2.0 - Organizational Restraint NIST Cybersecurity Framework (CSF) v2.0 - Organizational Self-Denial	ITIL 4 Foundation ITIL 4 Intermediate ITIL 4 Specialist ITIL 4 Expert ITIL 4 Strategic Leader ITIL 4 Change Management ITIL 4 Incident Management ITIL 4 Problem Management ITIL 4 Service Request Management ITIL 4 Knowledge Management ITIL 4 Continual Improvement ITIL 4 Asset Management ITIL 4 Configuration Management ITIL 4 Capacity Management ITIL 4 Availability Management ITIL 4 Information Security Management ITIL 4 Environmental Information Management ITIL 4 Supplier Management ITIL 4 Business Relationship Management ITIL 4 Professional Scopes ITIL 4 Self-Assessment ITIL 4 Maturity Assessment ITIL 4 Gap Assessment ITIL 4 Improvement Plan ITIL 4 Review ITIL 4 Reporting ITIL 4 Communication ITIL 4 Leadership ITIL 4 Governance ITIL 4 Compliance ITIL 4 Ethics ITIL 4 Privacy ITIL 4 Security ITIL 4 Risk ITIL 4 Resilience ITIL 4 Continuity ITIL 4 Recovery ITIL 4 Incident Response ITIL 4 Business Continuity ITIL 4 Disaster Recovery ITIL 4 Crisis Management ITIL 4 Reputation Management ITIL 4 Stakeholder Engagement ITIL 4 Transparency ITIL 4 Accountability ITIL 4 Integrity ITIL 4 Honesty ITIL 4 Fairness ITIL 4 Respect ITIL 4 Compassion ITIL 4 Empathy ITIL 4 Kindness ITIL 4 Gentleness ITIL 4 Patience ITIL 4 Self-Control ITIL 4 Modesty ITIL 4 Humility ITIL 4 Meekness ITIL 4 Mildness ITIL 4 Quietness ITIL 4 Peace ITIL 4 Stillness ITIL 4 Calmness ITIL 4 Quietude ITIL 4 Solitude ITIL 4 Seclusion ITIL 4 Privacy ITIL 4 Secrecy ITIL 4 Confidentiality ITIL 4 Discretion ITIL 4 Restraint ITIL 4 Self-Denial	BSA Framework BSA Framework	CSF Framework CSF Framework CSF Framework	CSF Framework CSF Framework CSF Framework	CSF Framework CSF Framework CSF Framework	CSF Framework CSF Framework CSF Framework	CSF Framework CSF Framework CSF Framework	CSF Framework CSF Framework CSF Framework	CSF Framework CSF Framework CSF Framework



DxCERTS

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



DxCERTS

Curriculum & Enterprise LMS Benefits

- NIST National Initiative for Cybersecurity Education (NICE) focused
- Accredited, White Label Print, Digital Book and Video Certification Curriculum
- Cyber Range Skills Training Programs and Advisory Services
- 100% Priced Right – no student left behind
- Role Based Training Curriculum with a focus on Engineering, Operations, Specialty Role & Risk Management professionals
- 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



DxCERTS

Career Pathways

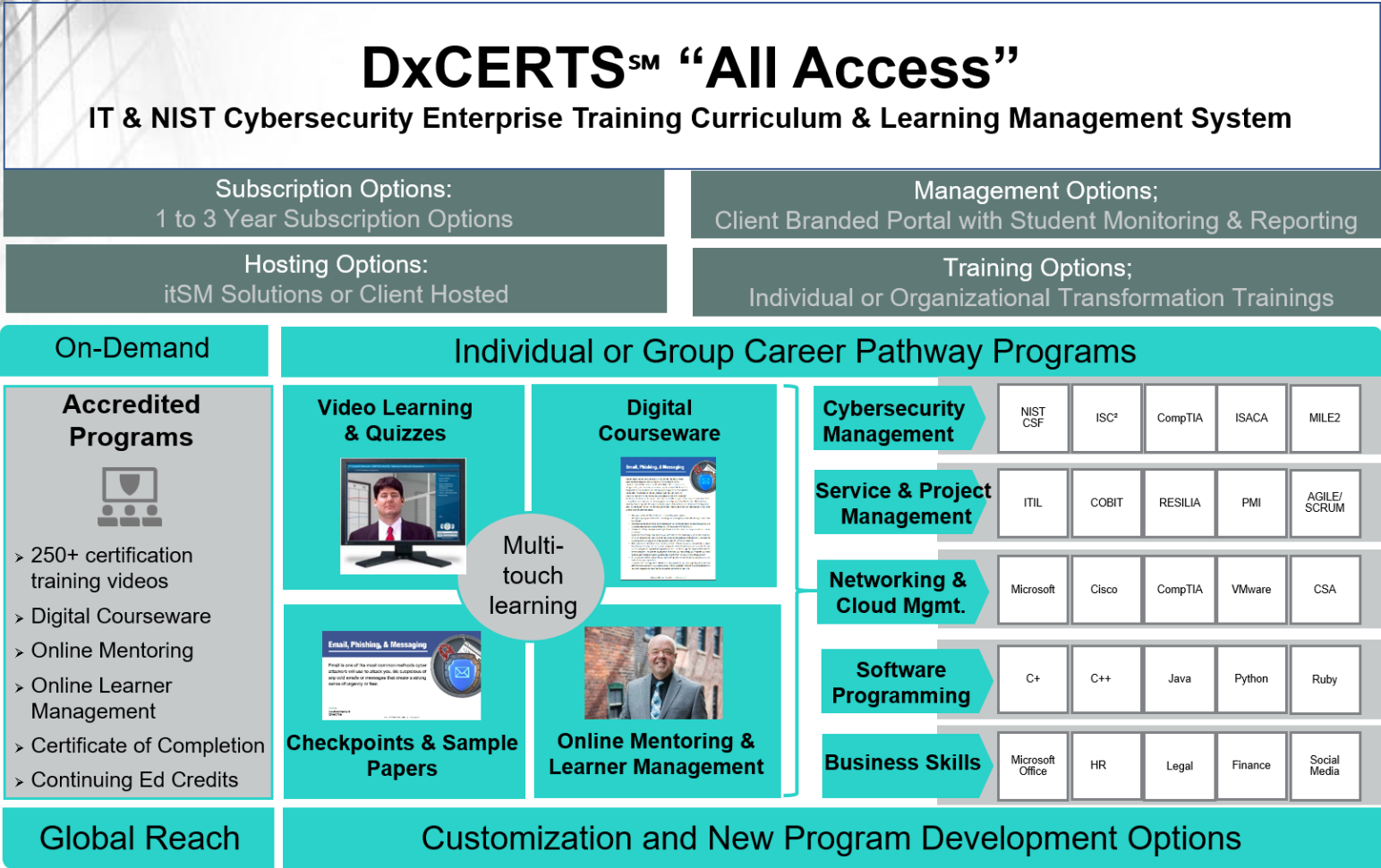
- **Cybersecurity Management** (NIST Cybersecurity Framework, NIST 800-171 etc.)
- **Cyber Resilience Management** (RESILIA)
- **IT Service Management** (ITIL V3, ITIL V4)
- **IT Governance Management** (COBIT5)
- **IT Project Management** (PMP, PRINCE2, SCRUM, AGILE)
- **Software & Application Launch 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)
- **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” that might be required during an internal or governmental audit of an organizations IT and Cybersecurity workforce.

DxCERTS "All Access" Program Overview



DxCERTS “All Access”

Case Studies

- **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.

- **Internal Revenue Service (IRS)**

- Rick Lemieux from itSM Solutions was involved in helping the IRS roll out its ITIL training program 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.



Questions & Answers

