

# DxCERTS<sup>SM</sup>

IT & NIST Cybersecurity  
Enterprise Training Curriculum & Student Management Program



# Agenda and Objectives

- The Digital Transformation (Dx) Problem
- NISTCSF.COM Cybersecurity Curriculum Consortium
- DxCERTS IT & Cybersecurity Frameworks & Methodologies
- DxCERTS IT & Cybersecurity Training Curriculum Catalog
- DxCERTS IT & Cybersecurity Curriculum Delivery Formats & Benefits
- DxCERTS Enterprise Training Curriculum & Mentoring Program

## 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 (DxCERTS<sup>SM</sup>) 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.

## IT & NIST Cybersecurity Frameworks & Methodologies

- **NISTCSF.COM Best Practice Frameworks and Methodologies curriculum areas include:**
  - NIST Cybersecurity Framework
  - NICE Cybersecurity Workforce Framework
  - Axelos ITIL® Cyber Service Management Framework
  - Axelos RESILIA™ Cyber Resilience Framework
  - ISACA Cobit Cyber Governance Framework
  - PMI PMBOK & Axelos PRINCE2 Project Mgmt. Methodology
  - IDT Digital Enterprise Readiness Framework
  - Cloud Security Alliance Cybersecurity Framework
  - SI Cyber Software & Application Security Testing Methodology

# 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.

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



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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

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## Curriculum & Enterprise Mentoring 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



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## 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 Enterprise

## Training Curriculum & Student Management Program

- The DxCERTS enterprise training curriculum and student management program provides guidance on how to profile the knowledge and skills of an enterprise IT & Cybersecurity workforce and then map that profile to the role based training programs necessary to create a workforce capable of identifying, protecting, detecting, responding and recovering 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 DxCERTS program ensures a successful outcome for both the student and employer.

# DxCERTS Enterprise Program Overview

## DxCERTS<sup>SM</sup> Enterprise

### IT & NIST Cybersecurity Training Curriculum & Student Management Program

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

##### Accredited Programs



- 250+ certification training videos
- Digital Courseware
- Online Mentoring
- Student Management & Reporting
- Certificate of Completion
- Continuing Ed Credits

##### Video Learning & Quizzes



##### Digital Courseware



Multi-touch learning



##### Checkpoints & Sample Papers



##### Online Mentoring & Review Sessions

#### Individual or Group Career Pathway Programs

##### Cybersecurity Management

NIST CSF

ISC<sup>2</sup>

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

#### Global Reach

#### Customization and New Program Development Options

# DxCERTS Enterprise 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.'

# DxCERTS Enterprise Training Program



## A Five Phase Approach to Building an Enterprise IT & Cybersecurity Workforce

- Securing Executive Commitment
- Selecting the Leadership Team
- Conditioning the Organization for Change
- Empowering the Organization to Change
- Institutionalizing the Program with HR

# Phase #1 – Executive Training Services

Securing Executive Commitment



**Phase #1  
Securing Executive  
Commitment  
(Executive Trainings)**

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



# Phase #2 – Leadership Training Services

Selecting the Leadership Team



**Phase #2  
Selecting the  
Leadership Team  
(Leadership Trainings)**

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

# Phase #3 – Enterprise Readiness Training



**Phase #3  
Conditioning the  
Organization for  
Change  
(Basic Trainings)**

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

# Phase #4 – Practitioner Training



**Empowering the  
Organization to Change  
(Specialty Trainings)**

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



# Phase #5 – HR Training Program



**Institutionalize the  
Program with HR  
(HR Programs)**

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

# Questions & Answers

