# **DxCERTS**<sup>sm</sup>

### **IT & Cybersecurity Enterprise Training Curriculum**



IT Experience. Practical Solutions.



### Agenda and Objectives

- NISTCSF.COM Cybersecurity Curriculum Consortium
- IT & Cybersecurity Frameworks & Methodologies
- IT & Cybersecurity Training Curriculum Catalog
- IT & Cybersecurity Curriculum Delivery Formats & Benefits
- DxCERTS Enterprise Cybersecurity Training Program





# NISTCSF.COM Cybersecurity Curriculum Consortium

- -itSM Solutions NISTCSF.COM is a global consortium of academic, government and industry thought leaders working together to create IT and Cybersecurity curriculum that teaches the knowledge, skills and abilities to operationalize the frameworks and methodologies created by the NIST National Initiative for Cybersecurity Education (NICE) 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.





# NISTCSF.COM 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<sup>™</sup> 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



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





# NISTCSF.COM 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



# NISTCSF.COM 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



# NISTCSF.COM 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, Lynx, Word, PowerPoint, Excel etc.)
- Business Skills (Communication Skills, Social Media, Accounting, Legal, HR etc.)





## NISTCSF.COM

DxCERTS IT & NICE Cybersecurity Enterprise Training Program

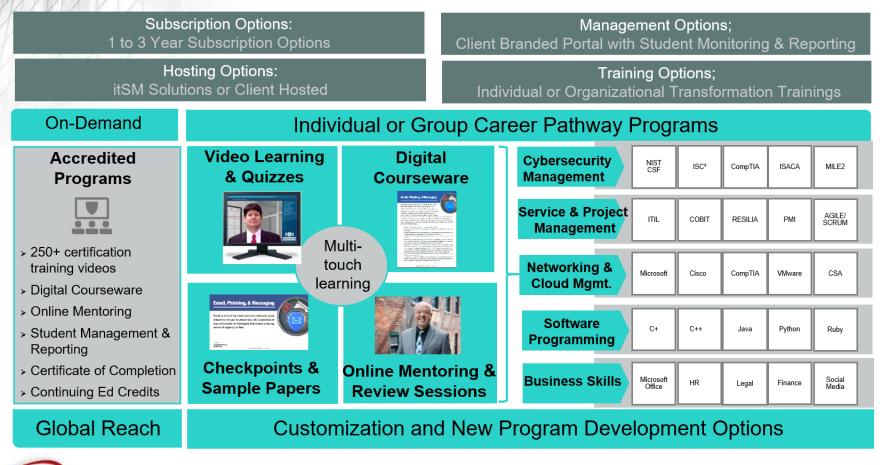
- The DxCERTS enterprise training curriculum and mentoring program provides guidance on how to profile the knowledge and skills of an enterprise IT & Cybersecurity workforce and then map that profile to the role based training programs necessary to create a workforce capable of identifying, protecting, 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.



# NISTCSF.COM DxCERTS Overview

# **DxCERTS**

#### IT & NICE Cybersecurity Enterprise Training & Certification Program







### NISTCSF.COM

### Enterprise Training Program– 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



Selecting the Leadership Team

Conditioning the Organization for Change

Empowering the Organization to Change

Institutionalizing the Program with HR

# 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**

CEO, CFO, CIO, CISO CRO, CCO, PMO Director, SMO Director, Governance Director

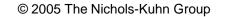
#### Objective

To help the executive team understand the benefits associated with operationalizing a IT & Cybersecurity program

#### **Training Programs**

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



© 2005 The Nichols-Kuhn Group

### Phase #3 – Enterprise Readiness Training

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

#### **Organization Role**

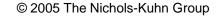
#### Objective

#### **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

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.

#### **Training Programs**

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



#### **Organization Role**

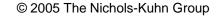
**HR Manager** 

#### Objective

#### Activities

To establish HR policies and procedures for training new employees and a career pathway for existing employees practicing IT & Cybersecurity Setup both eLearning and rolebased Blended Learning IT & Cybersecurity best practice training solutions for new and existing employees







# **Questions & Answers**





