

# DxCERTS<sup>SM</sup>

IT & NIST Cybersecurity  
Career Pathway Training Curriculum  
& Student Management Platform



# Agenda and Objectives

- The Cybersecurity Workforce Problem
- itSM Solutions NISTCSF.COM Cybersecurity Curriculum Consortium
- DxCERTS IT & NIST Cybersecurity Career Pathway Curriculum & Student Management Platform
- DxCERTS Unlimited Access Subscription Program



# The Cybersecurity Workforce 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

## IT & NIST 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), National Initiative for Cybersecurity Education (NICE), Axelos, ISACA, The Digital Transformation Institute and other internationally recognized institutes and organizations.
- The consortium's focus is to create online training curriculum that can be delivered in an instructor led classroom, virtual classroom, blended classroom or as a standalone self-paced video program.
- The consortium is also focused on delivering online train-the-trainer services that will enable academic and enterprise institutions to utilize existing resources to support the delivery or mentoring portion of its IT & NIST Cybersecurity workforce development and continuing education program.



# DxCERTS

## IT & NIST Cybersecurity Career Pathways Curriculum

- DxCERTS is the industry's first online IT & NIST Cybersecurity career pathway training curriculum & student management platform designed specifically for K-12, higher education and enterprise learning & development organizations.
- DxCERTS career pathway programs are aligned with the industry leading IT & Cybersecurity frameworks being adopted and operationalized by organizations across the globe.
- The online curriculum includes eight IT & NIST Cybersecurity career pathway programs plus one Business Soft Skill track which are designed to fit seamlessly into any existing academic or Learning & Development instructor-led or self paced program.



# DxCERTS

## IT & NIST Cybersecurity Career Pathways Curriculum

DxCERTS Enterprise Curriculum Pathways	Digital Transformation Readiness Framework Curriculum	NIST Cybersecurity & RESILIA Cyber Resilience Framework Curriculum	Digital Service Management & Digital Governance Framework Curriculum	NICE Cybersecurity Workforce Framework Information Security Curriculum	NICE Cybersecurity Workforce Framework Network & System Admin Curriculum	NICE Cybersecurity Workforce Framework cloud Management Curriculum	NICE Cybersecurity Workforce Framework Software Programming Curriculum	NICE Cybersecurity Workforce Framework Project Management Curriculum	NICE Cybersecurity Workforce Framework Business Skills Curriculum
<b>Pathway Description</b>	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to operationalize the digital transformation best practices outlined in the Digital Transformation Readiness Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to operationalize the the cybersecurity and cyber resilience best practices outlined in the NIST Cybersecurity and RESILIA Cyber Resilience Frameworks	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to operationalize the Service Management and Governance best practices outlined in the ITIL and Cobit Frameworks	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the information security workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the networking and administration workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the cloud management workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the application and software development workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the knowledge, skills and abilities to perform the project & program management workforce roles outlined in the NICE Cybersecurity Framework	This DxCERTS training and mentoring program enables students to learn the various lines of business skills necessary to communicate and work with the various lines of business within an enterprise
<b>Pathway Roles</b>	DTRF Engineer DTRF Operations Analyst DTRF Business Analyst DTRF Expert Practitioner	NISTCSF Engineer NISTCSF Operations Analyst NISTCSF Business Analyst NISTCSF Risk Management Analyst Cyber Resilience Engineer Cyber Resilience Operations Analyst Cyber Resilience Business Analyst	ITSM Engineer ITSM Operations Analyst ITSM Business Analyst ITSM Expert Practitioner ITSM AGILE Practitioner ITSM Governance Practitioner DEVOPS Practitioner	INFOSEC Engineer INFOSEC Operations Analyst INFOSEC Business Analyst INFOSEC Specialist Ethical Hacker, Pen Tester, Vulnerability Assessor, Forensics Investigator, First Responder, Wireless Network Professional, Auditor, Manager / Officer, Healthcare Professional, Secure Web Analyst, Disaster Recovery Analyst	Microsoft MCSA Microsoft MCSE Cisco CCNA Cisco CCNP VMware Professional CompTIA PC Specialist CompTIA Server Specialist CompTIA Network Specialist CompTIA Cloud Specialist CompTIA Linux Specialist CompTIA Healthcare Technician	Amazon Web Services Engineer Amazon Web Services Operations Analyst Microsoft Azure Engineer Microsoft Azure Operations Analyst	Software & Application Developer Javascript Specialist, ASP.NET Specialist, Angular 5 Specialist, SQL Server Specialist, C# Specialist, C++ Specialist, Python Specialist, Runline Specialist, RUBY Specialist, Hadoop Specialist, PERL Specialist, RESTful Specialist, Bootstrap Specialist, Selenium Specialist	Project Management Professional SCRUM Professional AGILE Professional RISK Management Professional	Enterprise Business Skills Cybersecurity Awareness , Operating Systems, Sharepoint, Internet & Core Computing, Legal, Web Design, Accounting, Social Media, Human Resources, Communication Skills, Time Management Skills, Thinking Critically, Business Etiquette, Customer Service
<b>Certification Bodies</b>	APMG International	APMG International Axelos / Peoplecert	Axelos / Peoplecert ISACA	CompTIA IS2 ISACA MILE2	CompTIA Microsoft Cisco Vmware	Amazon Microsoft	Various	Project Management Institute (PMI) Axelos SCRUMstudy	Various
<b>Alignment with NICE Cybersecurity Workforce Categories</b>	Oversee & Govern	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Oversee & Govern	Oversee & Govern





# DxCERTS

## Career Curriculum Pathways

- **Digital Transformation (DX) Readiness Framework**
  - DTRF - Engineer, Analyst, Specialist & Expert
- **NIST Cybersecurity & Cyber Resilience Frameworks**
  - NISTCSF - Engineer, Analyst, Specialist & Expert
  - RESILIA - Engineer, Analyst, Specialist
- **Service Management & Governance Frameworks**
  - ITIL - Engineer, Analyst, Specialist & Expert
  - AGILE Practitioner
  - Cobit IT Governance - Engineer, Analyst, Specialist & Expert
- **NICE Cybersecurity Workforce Framework**
  - Networking - Engineer, Analyst, Specialist & Expert
  - Information Security - Engineer, Analyst, Specialist & Expert
  - Software & Application Secure Programming
  - Cloud Management - Engineer, Analyst, Specialist & Expert
  - Project Management Professional

# DxCERTS

## Program Benefits

- DxCERTS is the industry's first online IT & NIST Cybersecurity career pathway training curriculum & student management platform designed specifically for K-12, higher education and enterprise learning & development organizations.
- DxCERTS career pathway programs are aligned with the industry leading IT & Cybersecurity frameworks being operationalized by organizations across the globe.
- DxCERTS subscription program provides enterprises of any size the ability to offer training to all of its IT & NIST Cybersecurity workforce.
- DxCERTS flexible delivery options enable the program to be adapted to any organizational structure and training schedule



# DxCERTS

## Program Benefits (cont.)

- DxCERTS online Student Monitoring, Mentoring & Reporting platform ensures a successful outcome for both the student and employer
- DxCERTS online instructor Train-the Trainer program provides enterprises and academic institutions with the tools to quickly stand-up its own delivery and mentoring force.
- DxCERTS multi-year licenses enable individuals and enterprises to span the training over degree program years or enterprise budget cycles
- DxCERTS procure options include Credit Card, Purchase Order, HR Continuing Education Funds, and State or Federal Workforce Development or Grant Funds



# DxCERTS

## Licensing Program

### **DxCERTS Individual Curriculum Licensing Options**

- **DxCERTS NIST Cybersecurity Framework Awareness Training Curriculum**

The DxCERTS NIST Cybersecurity Framework awareness training curriculum introduces students to the basic concepts associated with Digital Transformation, the NIST Cybersecurity Framework and Cybersecurity Risk Management.

### **DxCERTS Practitioner “All Access” Licensing Options**

- **DxCERTS Practitioner Subscription**

The DxCERTS subscription provides unlimited access to the complete DxCERTS online certification training library for 12, 24, 36 or 48 months.

- **DxCERTS Practitioner MANAGED Subscription**

The DxCERTS MANAGED subscription provides unlimited access to the complete DxCERTS online certification training library and branded student management platform for 12, 24, 36 or 48 months.



# Questions & Answers

