

# DxCERTS<sup>SM</sup>

NIST Cybersecurity Professional Training Curriculum



# Agenda and Objectives

- The Cybersecurity Workforce Problem
- DxCERTS Cybersecurity Curriculum Consortium
- DxCERTS Cybersecurity Career Pathway Curriculum
- DxCERTS Licensing Program

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## 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 identifying, protecting, detecting, responding and recovering from cyber-attacks.

# DxCERTS

## IT & NIST Cybersecurity Curriculum Consortium

- DxCERTS is a global consortium of academic, government and industry thought leaders working together to create Digital Transformation (DX) Training Curriculum based on the frameworks, methodologies and technologies outlined in the National Institute of Standards and Technologies (NIST) cybersecurity and risk management frameworks.
- DxCERTS focus is to create white label training curriculum and train-the-trainer services that will enable training institutions of all types (K-12, Higher Education, Training Companies & Enterprise Learning & Development) to offer the DxCERTS cybersecurity training curriculum as part of its existing academic and continuing education classroom, virtual, blended learning or self-paced e-learning programs.

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## DxCERTS NIST/NICE Cybersecurity 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.
- The DxCERTS curriculum includes eight career pathway programs that are aligned with the IT and Cybersecurity frameworks being adopted and operationalized by enterprises across the globe.

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
Pathway Description	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 business skills necessary to communicate and work with the various lines of business within an enterprise
Pathway Roles	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 Operations Analyst	Software & Application Developer JavaScript Specialist, ASP.NET Specialist, Angular 5 Specialist, SQL Server Specialist, C# Specialist, C++ Specialist, Python Specialist, Runtime 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, Intense & Core Computing, Legal, Web Design, Accounting, Social Media, Human Resources, Communication Skills, Time Management Skills, Thinking Critically, Business Etiquette, Customer Service
Certification Bodies	APMG International	APMG International Axelos / Peoplecert	Axelos / Peoplecert ISACA	CompTIA ISC2 ISACA MILE2	CompTIA Microsoft Cisco Vmware	Amazon Microsoft	Various	Project Management Institute (PMI) Axelos SCRUMstudy	Various
Alignment with NICE Cybersecurity Workforce Categories	Oversee & Govern	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Investigate Analyze	Securely Provision Operate & Maintain Protect & Defend Oversee & Govern Collect & Operate Analyze	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain Protect & Defend	Securely Provision Operate & Maintain	Oversee & Govern	Oversee & Govern



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## NIST & NICE 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





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## Program Benefits

- **DxCERTS** was specifically designed to meet the curriculum and student management needs of today's training organizations (K-12, Higher Ed, Enterprise L&D etc.)
- **DxCERTS** career pathway programs are aligned with the industry leading IT & Cybersecurity frameworks being operationalized by enterprises across the globe
- **DxCERTS** flexible licensing model 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** online Student Monitoring, Mentoring & Reporting platform ensures a successful outcome for both the student and employer
- **DxCERTS** online Train-the Trainer program enables resellers 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** procurement options include Credit Card, Purchase Order, HR Continuing Education Funds, State of Federal Workforce Development Grant Programs



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## Licensing Program

### **DxCERTS NIST Cybersecurity Framework Programs**

- NIST Cybersecurity Professional (NCSP) Awareness Training Curriculum
- NIST Cybersecurity Professional (NCSP) Foundation Training Curriculum
- NIST Cybersecurity Professional (NCSP) Practitioner Training Curriculum
- NIST Cybersecurity Professional (NCSP) Boot Camp Training Curriculum
- NIST Cybersecurity Professional (NCSP) Training Library

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





# Questions & Answers

