



Homeland
Security

NICE and the Federal Virtual Training Environment (FedVTE) and Federal Cybersecurity Training Events (FedCTE)

August 2013

Cyber Threats Increase Every Day

As a Nation, we must respond by improving our technical infrastructure, *and* by developing and maintaining a highly-skilled cyber workforce capable of protecting our networks against cyber attacks.

- In May 2009, the President ordered a Cyberspace Policy Review to develop a comprehensive approach to secure and defend America's infrastructure. The review built upon the Comprehensive National Cybersecurity Initiative (CNCI) launched by President George W. Bush in 2008.
- The Cyberspace Policy Review expanded from CNCI, creating the **National Initiative for Cybersecurity Education (NICE)**



FEDVTE/CTE SUPPORTS NICE

- The Nation needs greater cybersecurity awareness
- Potential employees need information about skills and abilities required for cybersecurity jobs
- VTE was originally created for the Air Force to deliver cybersecurity training to Airmen and women stationed around the globe.
- DoD CIO made the VTE available to all four services, combatant commands, and field activities in support of DoD 8570 policy.
- FedVTE/CTE was developed under CNCI 8 to close training gaps
- Under NICE, Fed VTE has been made available all Federal employees

The National Initiative for Cybersecurity Education (NICE) was established to create a cybersecurity education program for the Nation to use sound cyber practices that will enhance the Nation's security.



What Does FedVTE/CTE offer?

The National Cybersecurity Training and Education Program

- Mission is to provide online and on-demand training to cybersecurity professionals
- Provides hands-on, interactive labs and exercises in a virtual environment
- Both FedVTE and CTE programs delivers over 30,000 hours of training per month with an operating cost (shared) of \$14 per hour of training delivered

FedVTE

- Established in September 2012 and is already delivering over 30,000 hours of training each month
- Provides online, on-demand training and hands-on labs
- Used by over 120 organizations in every branch of the Government

FedCTE

- Utilizes virtual world to provide remote, instructor-led training to students around the world, eliminating all travel costs.
- Current customers include Federal and SLTT governments and Academia
- FedCTE has trained 873 students from 130 organizations.



What does FedVTE Look Like?

Virtual Training Environment Ms. Beth Subero [Log Out](#)

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	(ISC)2 (TM) CISSP Concentration: ISSAP	Enroll in Course
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	(ISC)2 (TM) Systems Sec. Certified Practitioner	Enroll in Course
	(ISC)2 CISSP (R) 2012	Enroll in Course
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CompTIA A+ Prep



CompTIA A+ Prep

Group: Certification Prep | **Credit:** 20
Modules: 17 | **Content:** 73
5899 Enrollments, 593 Completions

CompTIA A+ Prep

Specialty Area(s): Enterprise Architecture, Network Services, System Administration, Customer Service and Technical Support, Computer Network Defense Infrastructure Support

Training Proficiency Level: Level 1 - Basic

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Expand All

- A+ Introduction**
- Introduction to the Personal Computer**
A+ Introduction to the Personal Computer
- Safe Lab Procedures and Tool Use**
A+ Safe Lab Procedures and Tool Use
- Computer Assembly - Step by Step**
A+ Computer Assembly - Step by Step
- Preventive Maintenance and Troubleshooting**
A+ Preventive Maintenance and Troubleshooting
- Fundamental Operating Systems**
A+ Fundamental Operating Systems



What does FedVTE Look Like?

This 1 day course is designed to give managers an overview of cyber security concepts to aid in better understanding their security posture.

Specialty Area(s): Information System Security Management Security Program

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Cyber Security Overview Course Introduction

Course Objectives

- Understand Key Concepts and Issues in Cyber Security
- Understand Cyber Security's Role in an Organization's Culture, Vision, and Mission
- Understand Organizational Governance Model
- Understand Risk Management and Risk Analysis
- Understand the Threat Environment and Related Controls
- Understand Business Continuity Planning (BCP) and Disaster Recovery Planning (DRP)



Enter Search



So what we hope that you will get out of this class is that you walk away with an understanding of what cyber security is; you understand what the role of cyber

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VIDEO: Cyber Security Overview Course Introduction



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Stakeholder Engagement and Cyber Infrastructure Resilience

What does FedVTE Look Like?

Cyber Security Overview Quiz

Question 2/25

Course exam for Cyber Security Overview for Managers

Question: Which of the following describes Aggregate Risk?

Points: 1

Your Answer(s): (This question must be answered to continue)

- The risk linked to a particular activity itself.
- Exists when a particular threat affects a large number of minor vulnerabilities that combined have a significant impact.
- What remains after the controls have been applied to mitigate risk.
- Comes from a failure of the controls to properly mitigate risk.

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Submit Answer

Skip

QUIZ: Managers Cyber Security Overview Quiz



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What Does FedCTE Look Like?



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FedVTE and FedCTE Expansion

- NICCS
- Framework
- ITWAC
- MS-ISAC Report
- FedCTE Competitions



National Initiative for Cybersecurity Careers and Studies (NICCS) Website

The NICCS website is a national online resource for information on cybersecurity awareness, education, talent management, and professional development and training. The NICCS website is an implementation tool for NICE.



Visit NICCS here: www.niccs.us-cert.gov



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THE NATIONAL CYBERSECURITY WORKFORCE FRAMEWORK

NICE developed the National Cybersecurity Workforce Framework (the Framework) to codify cybersecurity work and to identify the specialty areas of cybersecurity professionals.

The Framework establishes:

- A common taxonomy and lexicon for cybersecurity workers that organizes cybersecurity into 31 specialty areas within 7 categories.
- A baseline of specialty areas, tasks, and knowledge, skills and abilities (KSAs) associated with cybersecurity professionals.

The Framework assists with strategic human capital efforts, including:

- Workforce planning
- Recruitment and Selection
- Training and Development
- Succession Planning



CYBERSECURITY
WORKFORCE
FRAMEWORK



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VIRTUAL ENVIRONMENT CYBER COMPETITIONS



New this year at the NICE Workshop!

In conjunction with the NICE Workshop, the Federal Cybersecurity Training Events (FedCTE) program is holding a Cyber Elite Challenge. Six teams from the federal workspace and colleges will compete to become one of the Cyber Elite.

6 teams competing:



And You!

You are part of one of the teams listed above. Check your badge color. You belong to that team and can earn points for your team!

How can you earn points for your team?

1. Answer the questions on the back of this page via Twitter or cast a ballot in the observation room.
2. Come to the observation room and immerse yourself in the AvayaLive virtual world.
3. Participate in the DC3 Digital Crime Scene Challenge.

Don't let your team down. Earn points and help them win!

Follow the competition

Come to the observation room in the Heritage Room by the cafeteria.
Twitter: #NISTNI
Video Recap on Youtube: <http://www.youtube.com/watch?v=nofrl0eEMol>

- Virtual environment is dynamic enough to hold cyber competitions
- It is also immune to catastrophic events that can disrupt brick and mortar trainings, competitions, and conferences, e.g. Tropical Storm Sandy
- Events can bring attendees from across the nation to the same location (virtually speaking) without additional costs
- Are not affected by sequestration restrictions.



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THE IT WORKFORCE ASSESSMENT FOR CYBERSECURITY (ITWAC)

2012 ITWAC

- NICE partnered with the Federal CIO Council to distribute the 2012 ITWAC
- A web-based, voluntary, and anonymous self-assessment of proficiency across cybersecurity competencies
- A total of 22,956 participants from 52 federal departments and agencies completed the ITWAC
- Participants indicated a strong need for training in the following Framework Specialty Areas:
 - Information Assurance (IA) Compliance
 - Vulnerability Assessment and Management
 - Knowledge Management



Fed VTE and CTE

- 2012 ITWAC identified gaps in provided training and workforce needed
- Found that FedVTE and CTE provided training for IA and Vulnerability Assessment
- Training for Knowledge Management is being created
- Fed VTE and CTE are constantly trying to seek out training gaps and close them



FEDERAL CYBERSECURITY TRAINING EVENT DEMO

- NICE Workshop FedCTE Demo
 - Wednesday, September 18, 2013
 - Virtual Training Classroom
 - Lecture Room C
 - Olivia Morris
 - 9:00 am – 4:00 pm
 - Virtual Training Classroom Overview
 - Green Auditorium
 - Ed Nyack
 - 10:15 – 11:15 am



QUESTIONS OR FOR MORE INFORMATION

Please contact:

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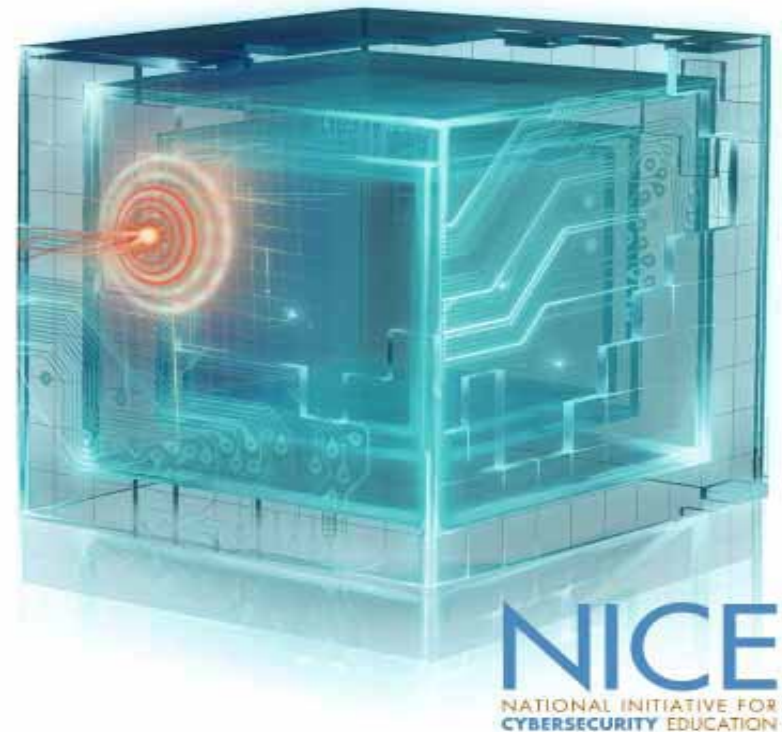
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