Federal Cybersecurity Training Events Program

Course:	**ASPIRE TO BECOME THE CYBER ELITE: JOIN THE CHALLENGE**
Date:	**3-DAY EVENT: Tuesday, October 30, 2012 through November 1, 2012.** (Refer to the Agenda below for times.) **APPLICANTS MUST COMMIT TO ATTENDING ALL THREE DAYS**
Location:	**This class will be held virtually in the virtual world.** A system pre-test must be completed as part of the application. (Please refer to the System Requirements section below.)

COURSE DESCRIPTION:

The Department of Homeland Security (DHS), in partnership with the Department of State Bureau of Diplomatic Security, is hosting an event in conjunction with the NICE Conference called the Join the Cyber Elite Challenge. FedCTE is hosting this unique training event that utilizes virtual world instruction and collaboration technology to deliver hands-on skills development for use in a live-fire, cyber exercise and competition.

As cyber threats continue to grow at an exponential rate, the need for identifying and educating cyber security professionals has taken center stage as part of a national strategy to secure our cyberspace. This pressing workforce demand creates opportunities for current Information Technology (IT) professionals as well as those looking to pursue IT as possible career path. Participants of this event will be introduced to the fundamentals of how to:

- "harden" a network to protect against potential threats
- assess and identify potential network vulnerabilities

- diagnose and fix common vulnerabilities
- identify a threat from routine network traffic

During this three-day event, participants will become a member of a virtual team that will be tasked with hardening a network and then defending that network against unknown cyber threats that are part of day to day reality for any IT professional. Students will acquire knowledge, demonstrate skills and exercise defense.

Accept the challenge. Become part of the Cyber Elite, Enroll Today!

RECOMMENDED AUDIENCE:

SEEKING 24 JUNIOR LEVEL PARTICIPANTS TO BE TEAM MEMBERS
SEEKING 6 MID LEVEL PARTICIPANTS TO SERVE AS TEAM LEADS

PLEASE IDENTIFY WHICH ROLE YOU ARE APPLYING FOR IN YOUR RESPONSE

PREREQUISITES:
TEAM MEMBER Prerequisite Requirements:
- Preferred to have between 0 to 4 years experience in IT or cybersecurity, students and entry level IT positions are encouraged to apply
- Experience using Microsoft Windows
- Comfortable downloading and installing software
- Gaming experience preferred

TEAM LEAD Prerequisite Requirements
- Required to have between 4 to 6 years experience in IT or cybersecurity
- Comfortable communicating technical ideas/concepts to both technical and non-technical individuals
- Comfortable serving as a team captain who assists cyber-exercise team members with problem resolution, team organization, as well as representing the team as necessary during discussions
- Experience using Microsoft Windows
- Comfortable downloading and installing software
- Gaming experience preferred

SPACE IS LIMITED—APPLY TODAY!
Students who are chosen to participate in this course will be notified by COB **October 16, 2012.**
Applications will not be accepted after this date. If you have submitted an application and have not heard anything by then, please follow up with your agency's FedCTE POC or send an email to RousseauLJ@state.gov.

COURSE AGENDA:

DAY 1:

8:30-9:00	WELCOME THE CYBER ELITE CHALLENGE, INTRODUCTIONS AND CLASS EXPECTATIONS
9:00-12:00	SESSION 1 – INSTRUCTION WITH HANDS-ON PRACTICE WITHIN VIRTUAL ENVIRONMENT - HOST-BASED HARDENING, ESSENTIALS OF "GOOD HYGIENE"
12:00-1:00	LUNCH
1:00-4:00	SESSION 2 – INSTRUCTION WITH HANDS-ON PRACTICE WITHIN VIRTUAL ENVIRONMENT – PATCHING, HOST-BASED SECURITY

DAY 2:

9:00-12:00	SESSION 3 – INSTRUCTION WITH HANDS-ON PRACTICE WITHIN VIRTUAL ENVIRONMENT – TCP/IP, VULNERABILITY SCANNERS, PACKET SNIFFING
12:00-1:00	LUNCH
1:00-3:00	SESSION 4 – INSTRUCTION WITH HANDS-ON PRACTICE WITHIN VIRTUAL ENVIRONMENT – FTP, FIREWALLS
3:00-4:00	INDUSTRY LEADERS PRESENTATIONS

DAY 3:

10:00-10:30	TEAMS REGROUP
10:30-12:00	NETWORK ATTACK BEGINS AND ENDS
12:00-1:30	LUNCH – INSTRUCTOR REVIEWS TEAMS OPERATIONAL LOGS AND EXERCISE PERFORMANCE
1:30-3:00	INSTRUCTOR DEBRIEF AND Q/A
3:00-3:30	TEAM RESULTS AND AWARD PRESENTATIONS

To ensure we start on time daily, participants are required to login to AvayaLive 15 minutes prior to the start of class each day.

HOW TO APPLY: Review the System Requirements (below). If you can meet these requirements, you will be required to complete a system pre-test to ensure your system is compatible. If your system meets the requirements below and you can commit to all three days of training, there are two ways to register:

If you are a federal employee or contractor

1. The FedCTE Point of Contact (POC) at your agency will act as a liaison for the FedCTE Program and your agency. If you are not sure whether or not your agency has established a FedCTE POC, please contact the FedCTE Program Coordinator (see below).

    a. If your agency has an established FedCTE POC, complete the SF-182 form with the signature of your direct-hire supervisor. Send a scanned copy of pages 1 & 2 of the completed form to your agency's FedCTE POC. Your POC will sign as the training officer and will submit the form to FedCTE on your behalf.

    b. If your agency does not have an established FedCTE POC, the CIO should designate someone who is authorized to sign as the training official and verify that the applicant has been selected to represent the agency at this FedCTE class. Send a scanned copy of pages 1 & 2 with signatures from your direct-hire supervisor and the appointed training official to RousseauLJ@state.gov.

2. Send your completed pretest to RousseauLJ@state.gov.

3. Indicate your preference to become a Team Lead or Team Member (see prerequisite section to determine your eligibility for each role).

If you are a U.S. college student

1. Complete the *Cyber Elite Challenge Registration Form* online or e-mail your form to RousseauLJ@state.gov.

2. Send your completed pretest to RousseauLJ@state.gov.

3. Indicate your preference to become a Team Lead or Team Member (see prerequisite section to determine your eligibility for each role).

SYSTEM REQUIREMENTS: Applicants must ensure that your computer has the minimum operating requirements. The AvayaLive Engage virtual world requires a robust computer. Software will need to be installed on your computer. Your computer must be a Windows-based PC, running:

- Windows XP SP3, Vista 32/64-bit SP2, or Windows 7 32/64-bit
- Intel 945 integrated graphics or better, 128MB, 1GB RAM, 1.50GHz CPU Monitor with a minimum screen resolution 1280 x 960 and at least with 16 bit color depth (1280 x 1024 or higher 32 bit color depth recommended).
- Recommended CPU/Memory: 1.5 GHz Dual Core / 2GB Ram
- Microsoft Internet Explorer 7.0 or higher
- USB headset with microphone (speakers and microphone can be used as a substitute although may cause noise feedback)
- Java Virtual Machine installed
- Adobe Flash
- High speed Internet connection (200 Kb/s per user with 1 Mb burst capacity)
- Requires the installation of one Microsoft signed Active-X controls to work properly, which requires machine level control

FOR MORE INFORMATION: Contact Lauren Rousseau-Ball, FedCTE Program Coordinator, at (703) 204-6122 or RousseauLJ@state.gov. See attached flyer for more information about the FedCTE program.