CERTIFICATE
COMPUTER & INFORMATION TECHNOLOGIES
INFORMATION SECURITY SPECIALIST

Program Description

The Information Security Specialist Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of information security. This certificate consists of the core skills that students need to effectively build and maintain information security systems. In addition, this certificate will provide a way for professionals currently in the industry to update their information security skills and for new students to show progress in the CIT program.

List of Colleges

Ashland Community & Technical College, Big Sandy Community & Technical College, Bowling Green Technical, College, Bluegrass Community & Technical College, Elizabethtown Community & Technical College, Gateway Community & Technical College, Hopkinsville Community College, Hazard Community & Technical College, Jefferson Community & Technical College, Madisonville Community College, Maysville Community & Technical College, Owensboro Community & Technical College, Southeast Kentucky Community & Technical College, Somerset Community College, West Kentucky Community & Technical College offer this certificate.

One of these colleges must be designated as your Home College. Even though the classes will be delivered by different KCTCS colleges, the Home College will admit you and take care of all of your student service needs including advising, library services, billing, financial aid, etc.

Getting Started

Students may register for KCTCS online classes offered system wide directly at any KCTCS college. Individuals may also complete a "course inquiry" submit form through www.kyvc.org. KYVC course inquiries are submitted directly to the KCTCS Home College identified by the student. The student's chosen Home College processes the course inquiry either through formal admission procedures or class enrollment. Additional information about KCTCS admission requirements and college contacts may be accessed at http://www.kctcs.edu/en/Students/LearnByTerm.aspx.

Certificate: Information Security Specialist

Upon completion of this program, the graduate can:

1. Explain the fundamental principles of information security.
2. Prepare for the common attacks and exploits against computers and networks.
3. Apply data security methodologies in situational cases to scan network computers and applications for vulnerabilities.
4. Configure firewalls and other perimeter defenses against attacks.
5. Install and configure intrusion detection software.
6. Describe basic functions of the Linux operating system.
7. Demonstrate a working knowledge of an elective security topic, such as operating system security, network security, computer forensics, or another selected security topic.
8. Recognize and recall major elements and methods of securing networks and workstations.
9. Identify basic attributes, purposes, and functions of network components including wireless technologies.
10. Assess the security needs of computer and network systems to recommend safeguard solutions for maintenance of security devices, systems, and procedures.

Course Requirements

Here is a listing of the classes involved in this certificate. There may be additional courses that meet these requirements. Please check the current course catalog and online class schedule for additional information and offerings. The entire Associate in Applied Science degree may be completed online; however, some faculty may require proctored exams. Approved proctored sites are listed at http://www.kctcs.edu/en/Students/LearnByTerm.aspx under student services.

Information Security Specialist

Program Title: Information Security Specialist			
Course Prefix	**Course Number**	**Course Title**	**Credit Hours**
		Level I Network Course	4
CIT	180	Security Fundamentals	3
CIT	182	Perimeter Defense	3
CIT	184	Attacks and Exploits	3
		Approved Security/Security Elective Courses	6
		Total	**19**

Helpful Links

Dates of Actions:

Revisions: December 2008, October 2010, August 2011, December 2011, April 2012