TEXAS A&M UNIVERSITY KINGSVILLE
CENTER FOR CONTINUING EDUCATION

CompTIA Security+ Certification Training (Voucher Included)

80 hours/6 months/Instructor-Facilitated/Certificate Program

Course Code: **CTP-E2G330**

TP#: E2G330 Course Cost: **$3,995.00**

Texas A&M University~Kingsville
In partnership with 360training.com
700 University Blvd
Kingsville, TX 78363-8202
http://www.tamuk.edu/continuinged/
(866)-991-3921 or (361) 593-2861

OVERVIEW

CompTIA Security+ is the certification globally trusted to validate foundational, vendor-neutral IT security knowledge and skills. CompTIA Security+ is the first security certification IT professionals should earn. It establishes the core knowledge required of any cybersecurity role and provides a springboard to intermediate-level cybersecurity jobs. Security+ incorporates best practices in hands-on trouble-shooting to ensure security professionals have practical security problem-solving skills. Cybersecurity professionals with Security+ know how to address security incidents – not just identify them. Upon completion of the program, you will be given a voucher to take the CompTIA™ certification exam, CompTIA Security+ SYO-501.

OBJECTIVES

CertMaster Learn covers topics across all objectives on the CompTIA Security+ exam, including:

- Identifying and understanding vulnerability causes, testing, impacts, and actors involved
- Applying hardware and software to support organizational security
- Applying business policies, plans, and procedures to reduce risk and impact
- Designing and implementing secure frameworks, systems, controls, and best practices
- Understanding basic cryptographic concepts, algorithms, and functions
- Configuring and implementing accounts and user access controls

STUDENT SERVICES

STUDENT SUPPORT SERVICES	INSTRUCTOR SERVICES	CAREER SERVICES
Study Groups	Answer Questions	Time Management Assistance
Student Success Calls	Mentoring	Labor Market Information
Study Schedules	24-hour Reply Time	National Certification Information
Technical Support	Industry Information	Externships
Extensions	Exam Reviews and Feedback	Check-in Emails
Leave of Absence	Write Recommendations	Student Feedback Surveys
Transcript Requests	On the Spot Test Results	
Completion Certificates	Progress Emails/Phone Calls	
Student Feedback Surveys	Student Feedback Surveys	

PROGRAM OUTLINE:

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Module 1: Security Attacks and Cryptography

- Introduction to Security
- Malware and Social Engineering Attacks
- Social Engineering Reconnaissance
- Basic Cryptography

Module 2: Security and Networking

- Advanced Cryptography and PKI
- Understanding PKI Concepts
- Application and Networking-Based Attacks
- Implementing DNSSEC
- Protocols and Services - SNMP
- Network Security Devices, Design, and Technology
- Firewall Rule Based Management
- Firewalls and Evasion
- NAT and OpenSSH
- Install and Configure Network Load Balancing

Module 3: Securing Networks and Clients

- Administering a Secure Network
- Application Data - Establish Host Security
- Implementing a Network Policy Server
- Wireless Network Security
- Network Vulnerabilities Part 1
- Network Vulnerabilities Part 2
- Password Cracking Tools
- Client and Application Security
- Data Encryption

Module 4: Mobile Security and Access Management

- Mobile and Embedded Device Security
- Authentication and Account Management
- Implementing AD Federation Services
- Configuring RADIUS
- Access Management
- Implement Patching using WSUS

Module 5: Business Continuity and Risk Mitigation

- Vulnerability Assessment and Data Security
- Scanning and Remediating Vulnerabilities with OpenVAS
- Explain disaster recovery and continuity of operation concepts.
- Business Continuity
- Configuring IDS and Honeypots
- Backup and Recovery
- Managing Local Storage and Virtual Hard Disks
- Introduction to Digital Forensics
- Risk Mitigation
- Managing Certificates
- Implementing Software RAID

Module 6: Final Exam and Completion Steps

- Course Completion
- Textbook Reading: Review
- Study Aid: Final Review: Flash Cards
- Practice Final Exam Quiz
- Study Aid: Final Review: Matching Game
- Study Aid: Final Review: Learning Game
- Final Exam

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