

# MYCOMPUTER CAREER

TRAINING FOR A BETTER LIFE

## CyberSecurity Specialist Syllabus CompTIA Security+ v601

### Course Description

CyberSecurity Specialist: In this course, students will learn how to secure and manage all facets of a network, from CPU cycles to software used by individuals or across a network. Students will learn how to implement and maintain an effective security strategy within a company's network infrastructure.

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The class will begin at 8:00 A.M. EST each instructional day on Saturdays and conclude at 6:00 P.M. EST each session. The course consists of a total of 40 hours.

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### Saturday 1

#### **Morning Session: Introduction to Information Security / Comparing and Contrasting Security Attacks / PKI Infrastructure**

- Topics
    - Identifying Information Security Roles and Frameworks
    - Recognizing Types of Attacks and Attackers
    - Implementing a Public Key Infrastructure
  - Activities and Demonstrations
    - Identifying Different Cyber Attacks (Skillsoft Lab)
    - Control Mechanisms, Standards, and Frameworks (Skillsoft Demo Lab)
    - Social Engineering Techniques and Exploits (Skillsoft Demo Lab)
  - End of Class Review
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#### **Afternoon Session: Security Concepts and Applications / Mobile Security / Risk Management and Disaster Recovery**

- Topics
  - Explaining Organizational Security Concepts
  - Understanding Security Policies and Risk and Disaster Recovery Importance
  - Implementing Data Security Policies
  - Identifying Secure Application Development Concepts
- Activities and Demonstrations
  - Implementing Security Protocols and Application Security Solutions (Skillsoft Lab)
  - Mobile Security Solutions (Skillsoft Demo Lab)
  - Organizational Risk Management and Policies (Skillsoft Demo Lab)
  - Incident Response Tools (Skillsoft Demo Lab)

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- End of Class Review
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## Saturday 2

### **Morning Session: Security Software Tools / Secure Network Protocols**

- Topics
    - Assessing Security Posture with Software Tools
    - Implementing Secure Network Access Protocols
  - Activities and Demonstrations
    - Securing a Cloud Infrastructure (Skillsoft Demo Lab)
    - Implementation of Secure Protocols (Skillsoft Lab)
  - End of Class Review
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### **Afternoon Session: Cryptography / Security Controls / Secure Network Implementation**

- Topics
    - Explaining Basic Cryptography Concepts
    - Comparing and Contrasting Security Controls
    - Implementing Secure Network Applications and Architecture
  - Activities and Demonstrations
    - Cryptographic Basic Concepts (Skillsoft Lab)
    - Implementing Secure Network Solutions (Skillsoft Demo Lab)
  - End of Class Review
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## Saturday 3

### **Morning Session: Security Appliances**

- Topic
    - Installing and Configuring Security Appliances
  - Activities and Demonstrations
    - Authentication and Authorization Implementation Techniques (Skillsoft Lab)
    - Identifying Different Application Exploits (Skillsoft Demo Lab)
    - Data Protection Implementation (Skillsoft Demo Lab)
  - End of Class Review
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### **Afternoon Session: Access Management Controls / Access Services & Accounts / PKI Infrastructure**

- Topics
  - Implementing Access Management Controls
  - Managing Access Services and Accounts
- Activities and Demonstrations

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- Identity and Account Management Mechanisms (Skillsoft Lab)
  - Implementing a Public Key Infrastructure (Skillsoft Demo Lab)
  - End of Class Review
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## Saturday 4

### **Morning Session: Understanding Monitoring and Auditing / Application Attacks and Security**

- Topic
    - Installing and Configuring Wireless and Physical Access Security
  - Activities and Demonstrations
    - Implementing Wireless Security Configurations (Skillsoft Demo Lab)
    - Application Hardening Deployment Techniques (Skillsoft Demo Lab)
    - Physical Security Control Mechanisms (Skillsoft Lab)
  - End of Class Review
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### **Afternoon Session: Full Course Review**

- Topic
    - Full Course Review
      - Student-focused Q&A for Understanding
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