

# Course Introduction

The screenshot shows a Microsoft PowerPoint slide with the title 'About the certification' in red. The slide contains a bulleted list describing the CompTIA Security+ (SY0-601) certification. The list includes statements about it being the first security certification, establishing core knowledge for cybersecurity roles, incorporating best practices for troubleshooting, and listing specific skills like assessing security posture, monitoring hybrid environments, operating with awareness of laws and policies, and identifying security events.

About the certification

- **CompTIA Security+ (SY0-601)** is the first security certification a candidate should earn.
- It establishes the core knowledge required of any cybersecurity role.
- Security+ incorporates best practices in hands-on troubleshooting, ensuring candidates have practical security problem-solving skills required to:
  - ✓ Assess the security posture of an enterprise environment and recommend and implement appropriate security solutions
  - ✓ Monitor and secure hybrid environments, including cloud, mobile, and IoT
  - ✓ Operate with an awareness of applicable laws and policies, including principles of governance, risk, and compliance
  - ✓ Identify, analyze, and respond to security events and incidents

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The screenshot shows a Microsoft PowerPoint slide with the title 'Course Prerequisites' in red. The slide contains a bullet point stating that to fully benefit from the course, the audience should have the following knowledge and skills: CompTIA Network+ and two years of experience in IT administration with a security focus.

Course Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- CompTIA Network+ and two years of experience in IT administration with a security focus.

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## IT Jobs Related to CompTIA Security+

- Security Administrator
- Systems Administrator
- Help Desk Manager/Analyst
- Network Engineer
- Cloud Engineer
- IT Auditor
- Security Officer
- DevOps/Software Developer
- Cybersecurity Analyst
- Security Engineer

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## Course Modules

**Module 1: Attacks, Threats, and Vulnerabilities (24%)**

**Module 2: Architecture and Design (21%)**

**Module 3: Implementation (25%)**

**Module 4: Operations and Incident Response (16%)**

**Module 5: Governance, Risk, and Compliance (14%)**

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## Topics Covered

1. Comparing Security Roles and Security Controls
2. Explaining Threat Actors and Threat Intelligence
3. Performing Security Assessments
4. Identifying Social Engineering and Malware
5. Summarizing Basic Cryptographic Concepts
6. Implementing Public Key Infrastructure
7. Implementing Authentication Controls
8. Implementing Identity and Account Management Controls

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## Topics Covered (cont.)

9. Implementing Secure Network Designs
10. Implementing Network Security Appliances
11. Implementing Secure Network Protocols
12. Implementing Host Security Solutions
13. Implementing Secure Mobile Solutions
14. Summarizing Secure Application Concepts
15. Implementing Secure Cloud Solutions
16. Explaining Data Privacy and Protection Concepts

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## Topics Covered (cont.)

- 17. Performing Incident Response
- 18. Explaining Digital Forensics
- 19. Summarizing Risk Management Concepts
- 20. Implementing Cybersecurity Resilience
- 21. Explaining Physical Security

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## FAQs

- Should I have **Network Fundamentals** before taking this course ?
  - Yes, Basics topics from Network+ or and other equivalent course.
- Do I need a powerful computer to implement the course Labs ?
  - Yes, If you will implement course labs in your computer
  - For me as an Instructor I will show you how to implement labs using **CompTIA Labs** hosted in their cloud.  
[CompTIA CertMaster Labs for Security+ \(SY0-601\) - Individual License](#) - (paid subscription)

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