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NETWORKING AND FIREWALL

CYBERSECURITY CERTIFICATE



In Partnership with **CYBA | Cyber Security**

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Skills
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Networking and Firewall Certificate

Welcome to the Computer Network Security Certificate!

This certificate has been crafted to **deepen your understanding and skills** in the areas of network security, hardware virtualization, and firewall technologies.

It has been designed to provide a **mix of theoretical foundations and practical applications**, equipping you with the knowledge to effectively secure and manage modern IT infrastructures. This certificate is a crucial stepping stone to entry level cyber security careers.

Modules

Computer Networks:

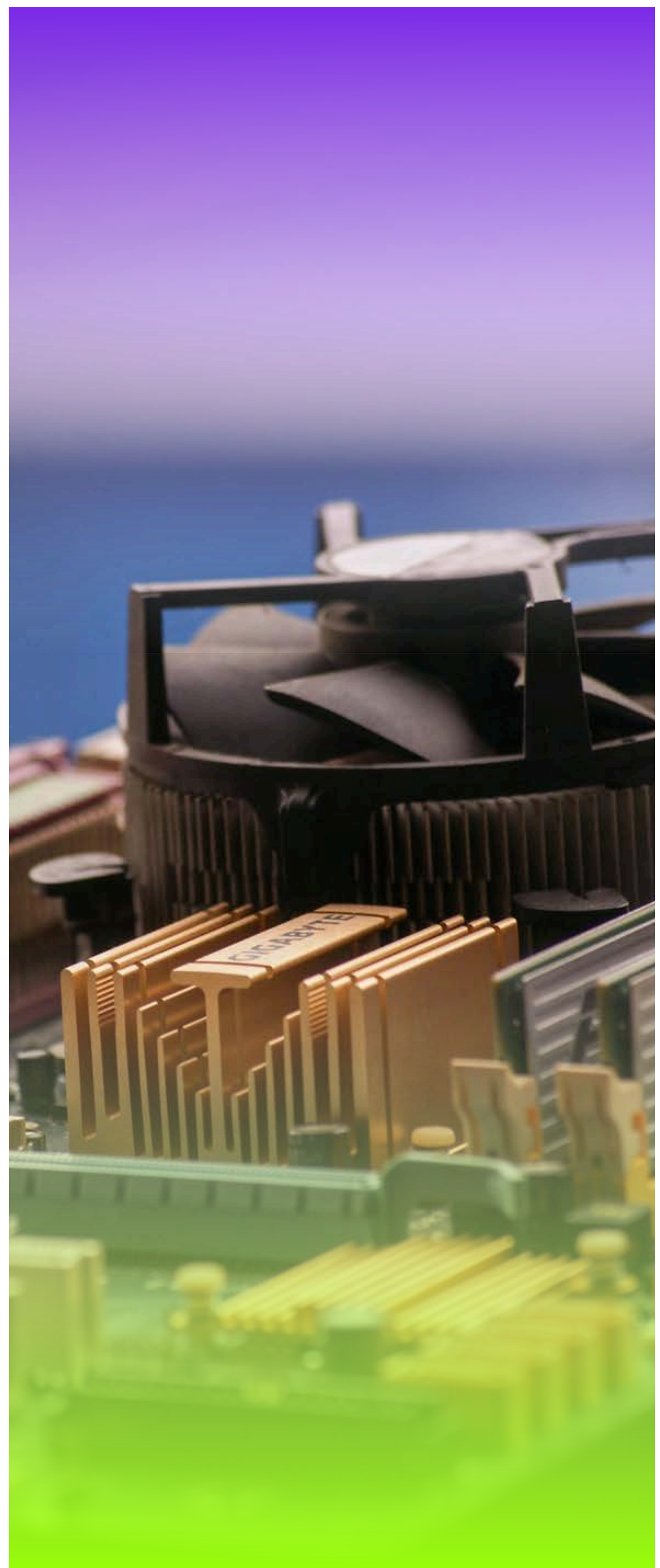
Learn about the evolution of network technologies and standards, gain a deep understanding of network structures, and protocols such as TCP/IP, and master essential networking concepts including IP addressing, subnetting, and routing.

Computer Hardware & Virtualization:

Explore the essential components of computer systems, their functionality, and the transformative role of virtualization in optimizing computing resources and facilitating cloud computing solutions.

Firewalls & Cyber Security:

Dive into the mechanics of network security, focusing on the deployment and management of firewall solutions, understanding network address translation, and the use of both commercial and open-source security tools.



Master Network Security:

A Comprehensive **40-Hour Workshop** for Aspiring Cyber Security Professionals

This certificate program is designed to lay a solid foundation for launching a successful career in cybersecurity.

The modules will:

Enhance Network Security

Knowledge: Build a solid foundation in network security principles and practices to secure data and network infrastructures.

Develop Hands-On Skills:

You will learn how to configure, troubleshoot, and manage network security devices and software.

Address Real-World Security

Challenges: Prepare to tackle contemporary security challenges faced by organizations, learning how to implement effective security policies and measures.

Advance Professional Careers:

This workshop is ideal for those looking to enhance their career prospects in network security, system administration, or IT infrastructure management.

Designed for individuals who are either stepping into the field of **IT security** or those seeking to enhance their knowledge of **network security**.

Each module is tailored to provide key insights and **hands-on experience**, ensuring that participants are well-prepared to apply their knowledge in **real-world scenarios**.

MODULE 1:

14 Hours

COMPUTER NETWORKS

Chapters:

1 Introduction to Networking

2 OSI Model

3 Encapsulation

4 Ethernet Standard

5 Network Cards

6 IP Addresses

7 IPv4

8 Ipv4 Problems and Ipv6

9 Network Devices

10 Switching & Routing

11 End-to-End Communication

MODULE 2:

12 Hours

COMPUTERS & VIRTUALIZATION

Chapters:

1 Basics of
Computers

2 Virtualization
Fundamentals

3 Virtualization
Platforms

4 Cloud Computing
and Virtualization

5 Operating
Systems

6 OS Core
Functionalities

MODULE 3:

14 Hours

FIREWALLS

Chapters:

1 Cyber Security &
Firewall Fundamentals

2 Check Point Firewall
Solution

3 Gaia Management
Interface

4 The Check Point
Smart Console

5 The Security
Policy

6 NAT

7 Open-Source
Firewalls

Outcomes:

Upon completion of the **"Computer Network Security Certificate,"** participants will achieve the following outcomes:

Enhanced Understanding of IT Infrastructure:

Participants will gain a deep understanding of IT infrastructure operate and interact, from basic networking to complex firewall configurations.

Practical Skills in Network Security:

Through labs and practical sessions, participants will develop hands-on skills in managing and securing networks. This includes configuring firewalls, troubleshooting network issues, and applying security measures effectively.

Preparedness for Advanced Roles:

Graduates of the workshop will be equipped with the necessary skills and knowledge to take on more advanced roles in network administration, cyber security, and IT management. This course serves as a stepping stone towards specialized certifications and career advancement in the field of IT security.

Ability

to Address Real-World Challenges:

With a comprehensive understanding of both theoretical and practical aspects of computer network security, participants will be better prepared to face and resolve real-world IT challenges in their professional environments.

Network of Peers and Professionals:

Participants will have the opportunity to network with peers and industry professionals, gaining insights from shared experiences.

CAREER PROGRESSION

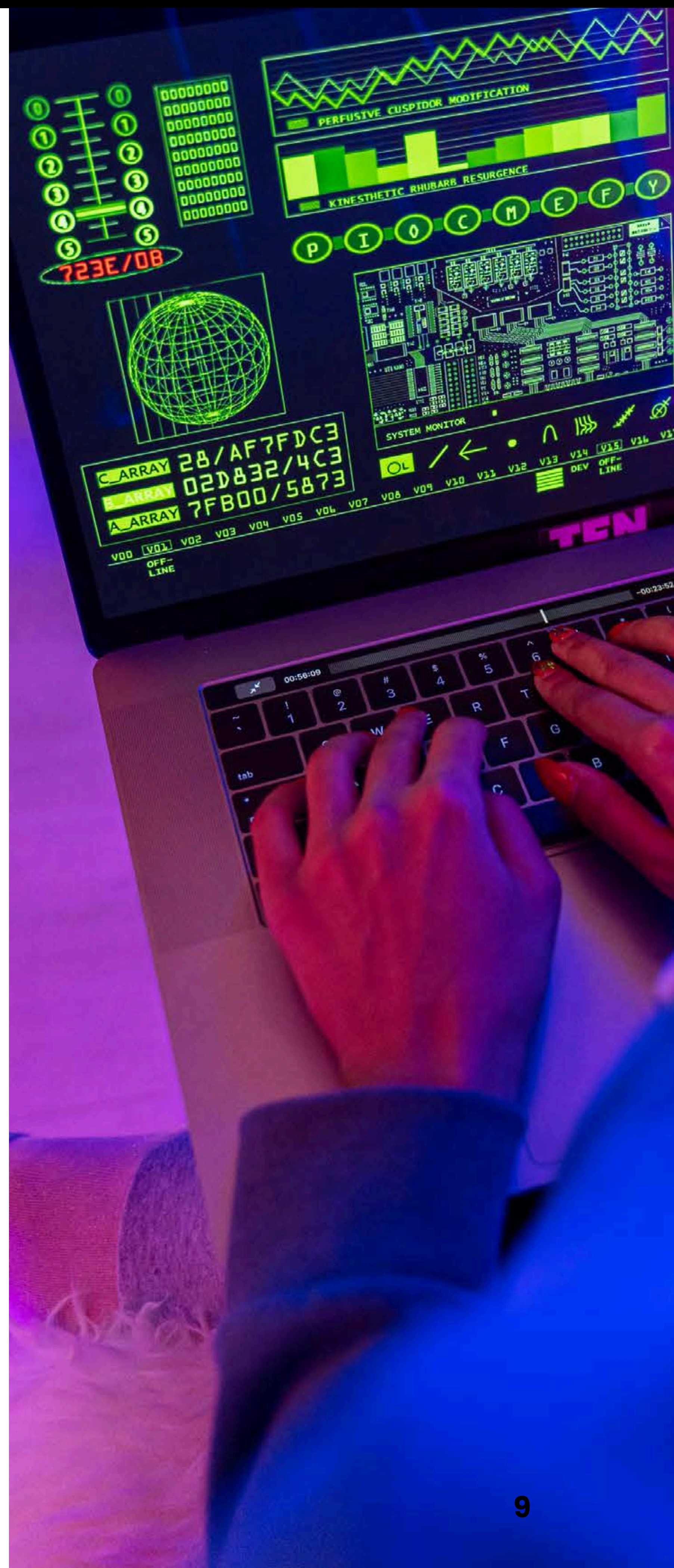
Upon completing our cybersecurity online course, you'll be equipped with the **essential skills, hands-on experience**, and certifications to pursue a variety of high-demand roles in the cybersecurity industry.

This certificate empowers participants to take their first confident steps toward a **rewarding career in cybersecurity**, equipping them with essential skills and practical knowledge to thrive in the industry with further training in CCNA, VMware, Linux OS by Skillbright in partnership with Cyba | Cyber Security.

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- **REAL WORLD PROJECTS**
- **VIBRANT LEARNING COMMUNITY**
- **CAREER ORIENTED RESULTS**



IGNITE YOUR POTENTIAL

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