

CYBER SECURITY



Username

Password

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COURSE FEATURES



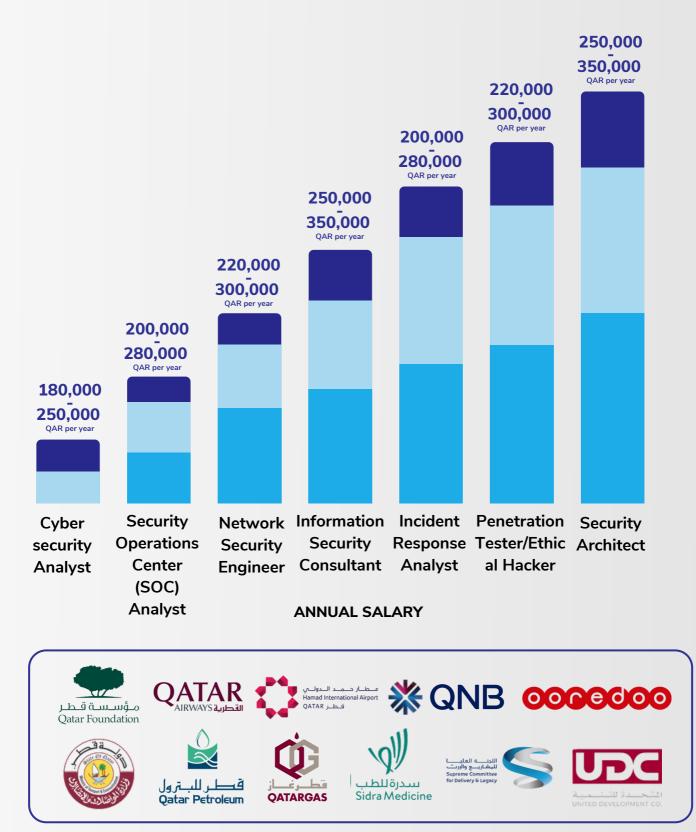


COURSE ELIGIBILITY

- Basic understanding of computer systems, networks, and internet protocols.
- Knowledge of programming languages and scripting is beneficial.
- Familiarity with operating systems and software applications.
- Strong analytical and problem-solving skills.
- Background in information technology or related field is preferred, but not mandatory



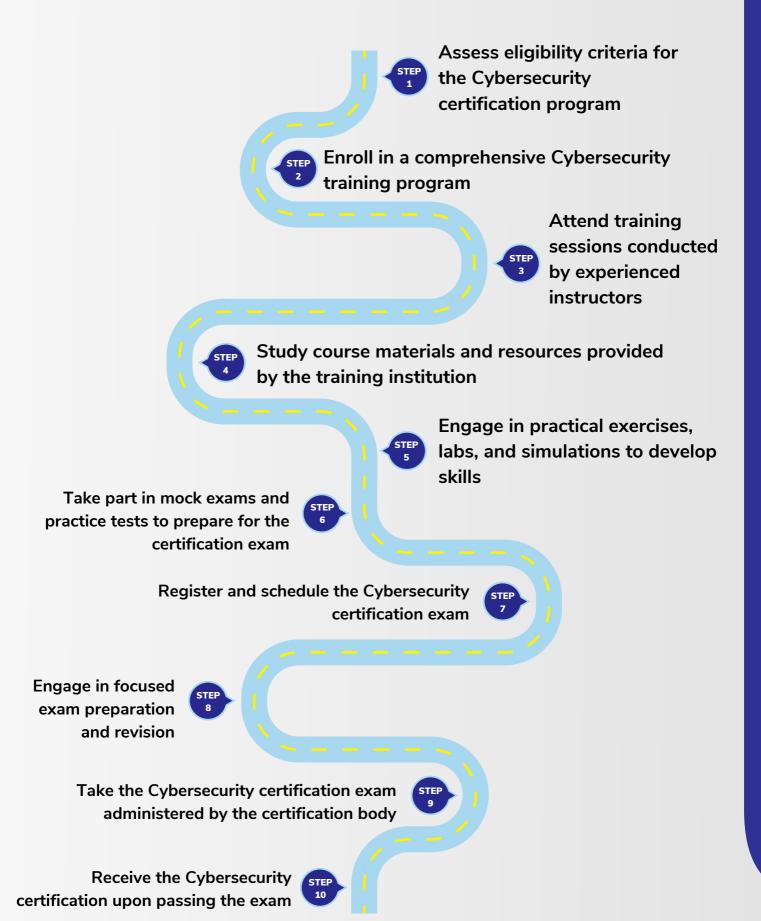
JOB OPPORTUNITIES WITH PAY SCALE



HIRING COMPANIES



CERTIFICATION PATH





DETAILED MODULE

Introduction to Cyber Security
Network Security & Information Security
Web and Application Security
Malware Analysis and Threat Intelligence
Incident Response and Digital Forensics
Cybersecurity Governance and Compliance
Ethical Hacking and Penetration Testing
Cybersecurity Operations and Monitoring
Cybersecurity in Cloud Computing and IoT



MODULE 1 : INTRODUCTION TO CYBER SECURITY

- Overview of cyber threats and vulnerabilities
- Introduction to security concepts and principles

MODULE 2 : NETWORK SECURITY& INFORMATION SECURITY

- Fundamentals of network security
- Network protocols and secure communication
- Network defense mechanisms and tools
- Confidentiality, integrity, and availability of information
- Encryption and cryptographic techniques
- Access control and authentication





MODULE 3 : WEB AND APPLICATION SECURITY

- Common web vulnerabilities and attacks
- Web security best practices
- Application security testing and secure coding practices

MODULE 4 : MALWARE ANALYSIS AND THREAT INTELLIGENCE

- Types of malware and their behavior
- Malware analysis techniques and tools
- Threat intelligence and its role in cyber defense





MODULE 5 : INCIDENT RESPONSE AND DIGITAL FORENSICS

- Incident response process and procedures
- Digital forensics techniques and tools
- Investigation and evidence collection

MODULE 6 : CYBERSECURITY GOVERNANCE AND COMPLIANCE

- Regulatory frameworks and standards
- Security policies, procedures, and guidelines
- Compliance audits and risk management





MODULE 7 : ETHICAL HACKING AND PENETRATION TESTING

- Ethical hacking methodologies
- Penetration testing techniques and tools
- Vulnerability assessment and remediation

MODULE 8 : CYBERSECURITY OPERATIONS AND MONITORING

- Security monitoring and incident detection
- Security information and event management (SIEM)
- Threat hunting and security operations center (SOC) practices

MODULE 8 : CYBERSECURITY IN CLOUD COMPUTING AND

- Cloud security challenges and solutions
- Securing IoT devices and networks
- Security considerations for cloud and IoT deployments





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