

Professional Networking Course: Build, Secure & Manage Real-World Networks!

Our Networking Course prepares you for top roles in IT infrastructure network engineering. Perfect for freshers, career-switchers, and students, this program combines hands-on projects with placement readiness, ensuring you are job-ready.



Ecorporate Trainings

Transforming learners into leaders.

About Ecorporatetrainings:-

Ecorporatetrainings leading e-learning platform providing live instructor-led interactive online training. We cater to professionals and students across the globe in categories like Big Data & Hadoop, Business Analytics, NoSQL Databases, Java & Mobile Technologies, Networking ,System Engineering, Project Management and Programming. We have an easy and affordable learning solution that is accessible to millions of learners.

About the Program:-

Ecorporatetrainings Masters Program will provide you in-depth knowledge of front-end and back-end technologies including Networking ,JavaScript, HTML, CSS, NodeJS, Python, AngularJS, MongoDB and many more thereby making you an expert full stack web developer. The program provides access to 200+ hours of interactive online learning, 10+ industry-based use cases, skills specific assessments and other resources. There are no prerequisites for enrollment to the Masters Program. It is designed and developed to accommodate diverse professional backgrounds. Our Masters Program recommends the ideal path for becoming a Full Stack Developer, however, it is learner's preference to complete the courses in any order they intend to.

NETWORKING

PROGRAM

COURSE CONTENT

1. Introduction to Networking

What is Networking?

- Definition of computer networking
- Importance in real-world applications (business, internet, communication)

Types of Networks

- LAN (Local Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)
- PAN (Personal Area Network)

Network Topologies

- Bus, Ring, Star, Mesh, Hybrid

2. Network Models

OSI Model (7 Layers)

- Function of each layer from Physical to Application
- Data encapsulation and flow across layers

TCP/IP Model

- Layers and real-world comparison with OSI
- Common protocols in each layer (e.g., TCP, IP, HTTP)

3. Network Devices

- Hub, Switch, Router, Bridge
- Modem, Repeater, Access Point
- Firewall and Gateway
- Layer-wise classification of devices

4. IP Addressing and Subnetting

IPv4 Addressing

- IP classes and structure
- Private vs Public IPs
- Loopback and reserved addresses

Subnetting

- Subnet mask, CIDR, FLSM/VLSM
- Subnetting calculations and IP distribution

Introduction to IPv6

- Structure and need for IPv6
- Basic comparison with IPv4

5. Switching and Routing

Switching Concepts

- MAC addresses, frame forwarding
- VLANs and trunking basics
- Spanning Tree Protocol (STP)

Routing Concepts

- Static vs Dynamic Routing
- Routing Tables and Path Selection
- Introduction to protocols: RIP, OSPF, EIGRP

6. Wireless Networking

- Wi-Fi Standards: 802.11a/b/g/n/ac
- SSID, frequency, channels
- Wireless security: WEP, WPA, WPA2

7. Network Security Basics

- Types of network attacks (DoS, spoofing, sniffing)
- Firewalls, IDS/IPS, VPNs
- Basic security best practices

8. Troubleshooting and Tools

- Common networking issues
- Commands: ping, ipconfig, tracert, nslookup
- Introduction to Wireshark and packet analysis

Why Choose Our Networking Course?



1

Industry Success

Building on the success of training leaders like QSpiders and JSpiders, our course is proven to deliver results.

2

Career Focused

Designed for top roles in IT infrastructure, cybersecurity, and network engineering.

3

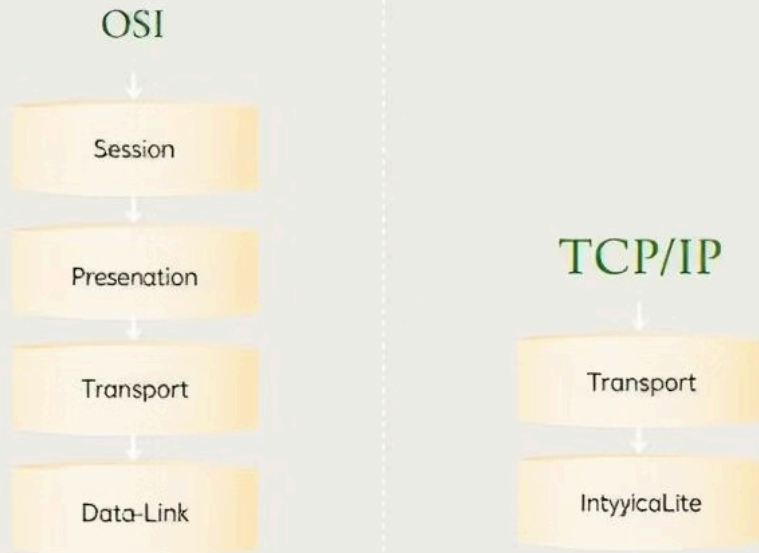
Job Readiness

Combines hands-on projects with comprehensive placement support to get you job-ready.

Networking Fundamentals & Models

Gain a solid foundation in networking with essential concepts and models. Understand the core principles that govern network communication.

- OSI vs TCP/IP Models: Learn the differences and applications.
- LAN, WAN, MAN, PAN architectures: Explore various network scales.
- IP Addressing & Subnetting: Master IPv4 & IPv6 basics for efficient network design.





Network Devices & Protocols

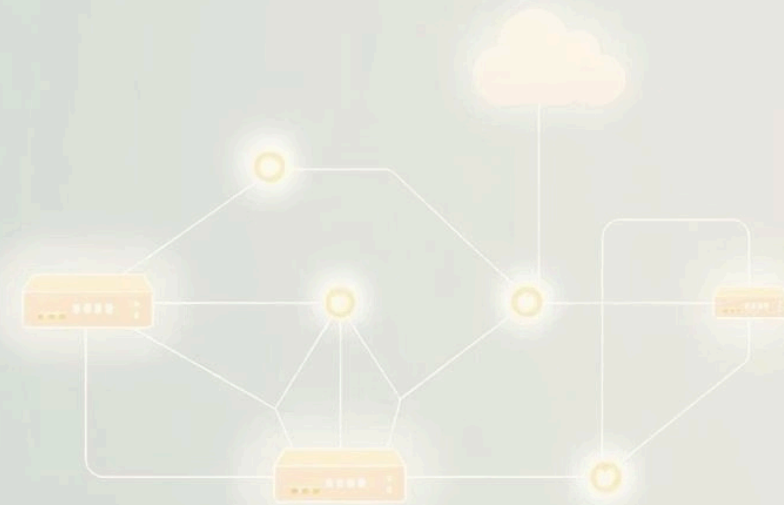
Familiarise yourself with critical network devices and the protocols that enable seamless data exchange across networks.

- Routers, Switches, Hubs, Modems, Access Points: Understand their functions.
- ARP, MAC addresses, VLANs: Dive into data link layer concepts.
- Core Protocols: DNS, DHCP, NAT, HTTP/HTTPS, FTP, SMTP, SNMP: Learn their roles in network operations.

Routing & Switching Mastery

Develop expertise in routing and switching, crucial for managing network traffic and ensuring efficient data delivery.

- Static vs Dynamic Routing: Compare and contrast routing methods.
- Key Routing Protocols: RIP, OSPF basics, BGP overview: Explore essential routing protocols.
- VLAN setup, Trunking, Spanning Tree Protocol (STP): Implement advanced switching configurations.



Wireless Networking & Security

Understand the intricacies of wireless networks, including standards, security measures, and troubleshooting techniques.

- Wi-Fi standards (802.11x): Learn about different Wi-Fi generations.
- Security methods (WEP, WPA/WPA2): Implement robust wireless security.
- Packet sniffing & rogue AP detection: Identify and mitigate wireless threats.



Network Security Essentials

Acquire vital skills in network security to protect systems from threats and ensure data integrity. Learn best practices for network hardening.

- Firewalls, VPNs, IDS/IPS: Implement key security technologies.
- Network hardening & best practices: Secure your network against vulnerabilities.



Network Troubleshooting & Analysis

Master the tools and techniques for diagnosing and resolving network issues, ensuring smooth and reliable network performance.

- Wireshark packet analysis: Analyse network traffic for insights.
- Tools: ping, traceroute, nslookup: Utilise essential diagnostic commands.
- Real-world scenario troubleshooting: Apply your skills to practical problems.

Beyond Certifications: Your Career Journey

Our programme offers comprehensive support beyond just certifications, focusing on your career advancement and placement assistance.

Comprehensive Career Support

Certificate & Resume

Industry-recognized Certificate of Completion and professional Resume Building.

Placement Assistance

Interview scheduling & company-specific preparation. Interview Preparation

Daily coding, mock interviews, and aptitude training.

Career Guidance

1-on-1 mentoring and job role mapping.

Interview Preparation

Daily coding, mock interviews, and aptitude training.

CERTIFICATION AND CAREER ADVANTAGE

Upon successful completion of the **NETWORKING** Course, you will be awarded an industry-recognised certification from Ecorporate Trainings. This certification is a testament to your acquired expertise and serves as a valuable credential to significantly boost your CV and enhance your career prospects in the competitive tech landscape.

Our certification validates your skills across the crucial areas of cloud computing, signalling to potential employers that you possess the practical knowledge required for immediate impact. It sets you apart, demonstrating your commitment to professional development and your readiness to tackle complex cloud challenges.

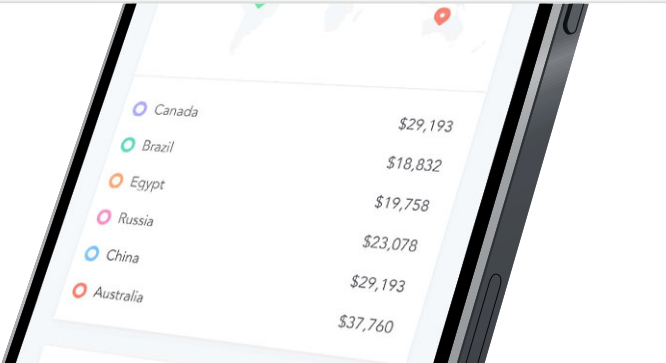



Ready to Launch Your Career? Join US

Whether you're taking your first steps into the tech industry or aiming to upskill and stay competitive, this Networking Course is your definitive gateway to a rewarding career in Quality Assurance. The demand for skilled QA professionals continues to grow, offering diverse opportunities across various sectors.

Get ready to build your future and make a significant impact in the world of software development. Follow us for all the latest updates and secure your spot!

To know more...



 Ecorporate Training

[Home | Ecorporate Training](#)

Our mission is to provide learners with the best corporate learning experience. Comprehensive resources & tutorials, a vibrant community, 24/7 assistance...



+91 9663241204.



mail Id: ecorporatetrainings@gmail.com



Ecorporate Trainings
Transforming Leannens into Leaders.

 Twitter

[ecorporate trainin...](#)

Transforming Learners into Leaders 🏆 Your...



Ecorporate Trainings
Transforming Leannens into Leaders.

 [www.facebook...](#)

[Ecorporatetrainin...](#)

Ecorporatetrainings Softwaresolutions is...

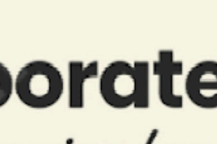


Ecorporate Trainings
Transforming Leannens into Leaders.


 Instagram

[Instagram \(@ecor...](#)

Instagram photos and videos



orporate Tr
nsforming leannens

 Bluesky Social

[ecorporatetraining...](#)