



## KIDS & TEENS FREELANCING TRAINING

### Networking Certification Course Outline

#### MODULE 1: What is Networking?

- What is a network? (Examples: school, home, internet)
  - Types: LAN, WAN, Wi-Fi, Ethernet
  - Why we use networks (games, messages, files)
  - Real-world examples (video calls, online games)
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#### MODULE 2: Inside a Home Network

- Devices: modem, router, switches
  - How Wi-Fi and cables work
  - IP address basics
  - Activity: Draw your home network map
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#### MODULE 3: How the Internet Works

- What happens when you type a website?
  - Servers, clients, and DNS
  - Packets and data travel
  - Trace route activity with ping or visual tool
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#### MODULE 4: Online Safety & Firewalls

- Password protection & encryption basics
  - What is a firewall?
  - Internet safety for kids (never share personal info)
  - Create a digital safety poster
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#### MODULE 5: Wireless vs Wired Connections

- Differences between Wi-Fi and Ethernet
- Strengths and weaknesses
- How devices connect to a router
- Mini experiment: test Wi-Fi speed around the house

## **MODULE 6: IP Addresses & Ports (Simple Intro)**

- What is an IP address (like a digital home address)?
  - What is a port (like a door for apps)?
  - Dynamic vs static IPs (basic overview)
  - Use “What’s my IP” safely with guidance
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## **MODULE 7: Networking in Games & Devices**

- Online multiplayer games and how they connect
- Local multiplayer using LAN
- Smart TVs, Alexa, game consoles — all use networks
- Quiz: What’s online and what’s not?

## **MODULE 8: Build a Mini Network & Review**

- Set up a mock network (paper-based or using simulation tools like Cisco Packet Tracer or Tynker)
- Label all parts (router, devices, data paths)
- Present a simple network design
- Final quiz + award certificate