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# Networking Essentials

## OVERVIEW:

Networking Essentials teaches networking based on environments students may encounter in daily life, including small office and home office networking. This course provides an engaging, self-paced learning experience using Packet Tracer simulation, interactive activities, and learning with your own devices at home.

## BENEFIT:

Develop a foundational understanding of the high-level network architecture and how a network operates.

**PREREQUISITE:** None

## CAREER OPTIONS:

- ✓ For developers, cybersecurity, business analysts, or other professionals: gain essential networking knowledge.
- ✓ For students: a launching point for many career pathways, from cybersecurity to software to business and more.

**Course Delivery:** Instructor-led or Self-Paced

**Learning Component Highlights:**

- ✓ 20 modules and 19 practice labs
- ✓ 24 Cisco Packet Tracer activities
- ✓ 130+ interactive activities, videos, & quizzes
- ✓ 5 module exams
- ✓ 1 final exam and 1 skills assessment (Instructor-led only)

**Course Recognitions:** Certificate of Completion, Letter of Merit, Digital Badge

**Recommended Next Course:** CCNA: Introduction to Networks (ITN), Cybersecurity Essentials, or DevNet Associate

**Course Outline:**

- ✓ Communications in a Connected World
- ✓ Online Connections
- ✓ Explore Networks with Packet Tracer
- ✓ Build a Simple Network
- ✓ Communication Principles
- ✓ Network Design and the Access Layer
- ✓ Routing Between Networks
- ✓ The Internet Protocol
- ✓ Dynamic Addressing with DHCP
- ✓ Transport Layer Services
- ✓ Application Layer Services
- ✓ Build a Home Network
- ✓ Connect to the Internet
- ✓ Security Considerations
- ✓ Configure Network and Device Security
- ✓ Cisco Routers and Switches
- ✓ The Cisco IOS Command Line
- ✓ Build a Small Cisco Network
- ✓ Troubleshoot Common Networks Problems