



WASTC 2018 Faculty Development Weeks

CCNA Introduction to Networks - Instructor Training

Dates: In Person, June 11 – 15, 2018 @ Cabrillo College, Aptos CA

CCNA Introduction to Networks: The CCNA introduction to Networks course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

Students who complete Introduction to Networks will be able to perform the following functions:

- Understand and describe the devices and services used to support communications in data networks and the Internet
- Understand and describe the role of protocol layers in data networks
- Understand and describe the importance of addressing and naming schemes at various layers of data networks in IPv4 and IPv6 environments
- Design, calculate, and apply subnet masks and addresses to fulfill given requirements in IPv4 and IPv6 networks
- Explain fundamental Ethernet concepts such as media, services, and operations
- Build a simple Ethernet network using routers and switches
- Use Cisco command-line interface (CLI) commands to perform basic router and switch configurations
- Utilize common network utilities to verify small network operations and analyze data traffic



Instructor: Bob Samson is the instructor Trainer for the Introduction to Networks (ITN) Instructor training class. Bob has worked with small computers since 1978, and was an independent consultant for 22 years in PCs and networking. He took the CCNA classes in 1999 and started teaching in 2001. Since then Bob has taught approximately 50 instructors in IT Essentials, CCNA, and Home Technology Management. He is also the CCNA lead instructor as a full-time faculty member of Mesa Community College, Mesa, AZ. And teaches each one of the CCNA R&S (v5.0) 2-3 times a year in traditional student classes.

In 2013 Bob won 3rd place with his submission of “A Packet Tracer Routing and Configuration Puzzle” to the Global Instructor Resources Contest. You may find that submission posted on the WASTC server, www.wastc.org

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