

HOME NETWORKING for INSTALLERS Workshop

Computer networks are fast becoming a critical part of the digital home and every installer is being asked to connect or install various network devices. Designed specifically for residential technology installers, this intensive workshop covers the capabilities, benefits and components of home networks for sharing computers, controlling and providing entertainment and Internet access. Students get a thorough grounding in the design and configuration of home networks and know how to successfully install a computer network with this practical, not theoretical, comprehensive introductory workshop.

LEARN HOW TO:

- Design and wire a home network
- Select components needed for a home network
- Configure a router to manage a home network
- Set up computer operating systems to be on a home network
- Install a switch/hub, and WAP, Wireless Access Point
- Use a home network as the backbone for connectivity between other residential technologies
- Provide home network security

WORKSHOP FEATURES AND MATERIALS

Designed by industry veterans, this workshop offers interactive training led by an experienced and qualified Bedrock Learning trainer and subject matter expert. Product samples will be shared along with live router and computer demonstrations. The workshop curriculum helps prepare for DHTI+ certification by CompTIA. Reinforce your learning with the online course opportunity. Each student receives workshop materials including:

- Comprehensive workbook in full-color, plus numerous handouts
- CD with Home Networking documentation forms
- Certificate of Completion
- CEU Credits: 3.5 for CEDIA and .6 for NBFAA
- Substantial savings on *online course* **Home Networking for Installers** for follow-up review and testing

WHO SHOULD ATTEND

This workshop is designed for Installers and Integrators working in the home, interested in understanding home networking, and wanting to add this skill set to their background. Those individuals working towards CompTIA DHTI+ or CEDIA certifications will gain knowledge in preparation for testing.

PREREQUISITES AND COST

- No prerequisites for this workshop
- Cost, including all materials and lunch, is \$399 per person
- Each additional student from the same company is \$299

DATES, LOCATION AND REGISTRATION

- For a complete schedule of workshops, visit www.bedrocklearning.com
- Register by phone at 616.355.1418

For more information:

BEDROCK
learning.com

email workshops@bedrocklearning.com
phone 616.355.1418



Workshop Outline

- 1. Home Networking Overview**
 - Home Networking in the Digital Home
 - History of the Internet
 - The Connected Home
- 2. Components and Network Devices**
 - Home Networking Terms
 - Components used in Home Networking
- 3. Cabling, Connectors and Wiring**
 - Types of Cables
 - Types of Connectors
- 4. TCP/IP Model**
 - Definition of TCP/IP
 - IP Addressing
 - Public/Private IP Addresses
 - Define DNS, NAT, DHCP
- 5. Tools for Home Networking**
 - Common Jobsite Hazards
 - Safety Rules
 - Installation and Testing Tools
- 6. Designing a Home Network**
 - Ten Steps in the Design Process
 - Component Selection
 - Wiring and Distribution Methods
 - Cable Schedule & Documentation
- 7. Installing a Home Network**
 - Installation Phases
 - Pre-wire Details
 - Cable Termination
 - Final Installation Steps
- 8. Router Configuration**
 - Configuring for Internet Access
 - Changing Router Settings
 - Securing the Router
 - Remote Management of a Home Network
- 9. Configuring Operating Systems and Devices**
 - Different Operating Systems
 - Windows OS Configuration
 - Mac OS Configuration
 - Connecting Network Devices
 - Static IP Address Configuration
 - Using Test Protocols
- 11. Verifying Connectivity**
 - Network Device Connectivity Verification
 - Implementing IP Cameras
 - Tracing Network Packets
 - Testing Network Devices
- 12. Securing the Home Network**
 - Home Network Security
 - Network Data Protection
 - Inspecting Home Network Security
- 13. Home Network Troubleshooting**
 - Common Wiring Problems
 - Top 10 Network Problems
 - Troubleshooting Techniques