

LiveLabs for the Cisco Certified Network Professional (CCNP) Experiential Learning for the Technical Professional

Live Hands-on Access to Real Cisco® Network Devices

IT professionals around the world now have fast and easy access to network infrastructure training through Toolwire® LiveLabs for Cisco-- the ultimate in hands-on anytime access to real network devices. LiveLabs are the most cost-effective live hands-on lab exercises for training on Cisco network technologies.

Enables Just-In-Time Experiential Learning

LiveLabs for Cisco provide instant, unscheduled access to real networking environments from the convenience of a web-browser. LiveLabs puts your training curriculum to use in practical, real-world scenarios with live technology emphasizing topics and content to provide the expertise necessary to integrate and manage converged networks, quality of service (QoS), virtual private networks (VPN) and security technologies.

Imagine if your entire technical staff could build and enhance their skills anytime, anywhere. Unlike simulations, LiveLabs perfectly reproduce the complex challenges of the real-world. They provide the ability for students to practice and refine their competencies, complementing their day-to-day work experience. This type of experiential learning has been proven to deliver the highest retention among all training methodologies.

Immediate Return-on-Learning

As part of a blended solution, LiveLabs are an attractive alternative to instructor-led training. Beyond immediate savings from the elimination of travel and time away from the workplace, LiveLabs cost a fraction of classroom training. More importantly, students prefer LiveLabs because they have the ability to tune the pace and timing of training to their schedule and they have the ability to go back and refresh skills when they need them most.

Deploying LiveLabs as part of a “sandbox” learning environment provides an immediate advantage to your organization. There is no need to worry about

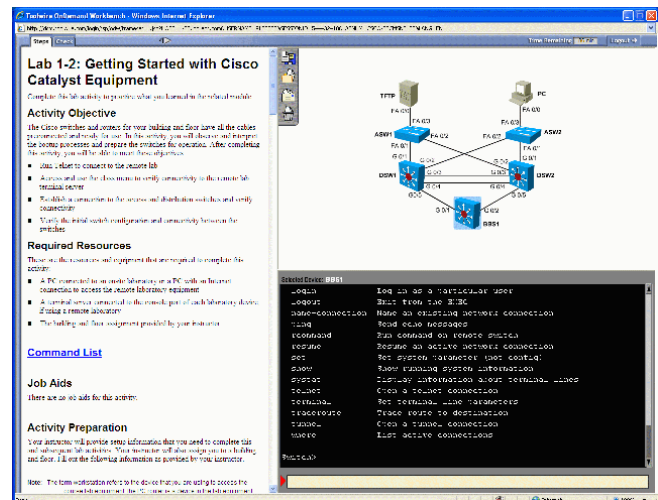
damage or disruption to any production systems, lost data, or any of the other things that can go wrong when your staff are testing new skills using “in-house” equipment.

Fully-Immersive, Practical Skills Training Anytime, Anywhere

LiveLabs provide practical IT training through these components:

Live Hands-on Access to Real Devices - A Flash-based interface uses one browser window to access a lab guide, the custom-configured topology, and multiple device Telnet consoles.

Challenging Lab Guides - Users will enjoy engaging lab guides which help build experience by presenting the user with large topologies representing a wide variety of real-world technology implementations.



Robust, Real World Topologies - LiveLabs feature industry-leading, seven device topologies, replicating real world complexity.

Intuitive Interface - Features an easy to use, integrated, three-pane interface so that users can achieve learning goals instead of wasting time managing multiple telnet windows.

The LiveLabs Advantage

The LiveLabs advantage is in having each lab dynamically constructed from a vast library of equipment for each user. Whether you have a small student population or thousands, Toolwire’s unique *Dynamic Switching Matrix* ensures high performance and availability at all times, scaling to meet demand.

Additional LiveLabs for Cisco features include:

- A compelling, personal, and safe online experience
- Full administrative control to modify device configurations to meet lab goals
- Firewall friendliness, global accessibility
- Multiple telnet sessions managed from a single window
- An ability to save-n-restore device configurations
- An ability to e-mail configurations for use on production systems
- A standards-based interface for integration with Learning Management Systems

“Working with Toolwire, we feel confident that we’re offering our channel partners the most comprehensive live labs offering on the market today.”

Kevin MacRitchie
VP Worldwide Channel
Technical Operations,
Cisco Systems, Inc.

Comprehensive Coverage of CCNP Topics

The CCNP certification validates a network professional’s ability to install, configure and troubleshoot converged local and wide area networks with 100 to 500+ nodes. Network professionals who utilize LiveLabs achieve the knowledge and skills required to manage the routers and switches that form the network core, as well as edge applications that integrate voice, wireless, and security into the network.

As an official Cisco Learning Partner, Toolwire is uniquely authorized to offer



comprehensive labs covering the large variety of topics necessary to gain proficiency with Cisco technologies. Toolwire offers more than 50 labs for CCNP which provide practice and skills development in a variety of areas, such as:

- Configuring IPSec VPN to Back up a WAN Connection
- Configuring Cisco IOS IPS
- Securing Cisco Routers
- Configuring OSPF for Multiple Areas and Frame Relay
- Configuring Multihome BGP
- Configuring IP Telephony Support
- Configuring QoS

Toolwire labs map directly to the current learning objectives within Cisco’s official course curriculum and are specifically aligned to the CCNP certification.

Course	# of Labs
Building Scalable Cisco Internetworks (BSCI)	14
Building Cisco Multilayer Switched Networks (BCMSN)	15*
Implementing Secure Converged Wide Area Networks (ISCW)	11
Optimizing Converged Cisco Networks (ONT)	14*
* Includes LiveLabs covering wireless technologies	

LiveLabs feature three accesses per lab per user with up to 90 minutes per access. In total, the LiveLabs library for Cisco CCNP offers more than 240 hours of equipment time.

The ability to get the most out of your Cisco network investments and meet your business goals is directly tied to the skills and expertise of your IT staff. With the right training, you will ensure your organization retains a competitive edge and realizes a faster return on your most critical resources, your people.

Client-Side Requirements:

- 56Kbps+ connection is recommended
- Microsoft Windows XP, 2000, Vista
- Internet Explorer 6.X SP1 and up
- Macromedia Flash plug-in 6.0 and up
- Java Client with Javascript enabled
- SSL connectivity (port 443)

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