The Cisco Expert-Level Training for CCIE Collaboration
The Cisco Expert-Level Training Components

Overview

The Cisco Expert-Level Training for Cisco CCIE Collaboration is the Cisco authorized training program that helps to develop collaboration network expertise. This blended learning program combines live instruction, self-paced training modules, hands-on lab practice, and peer interaction to develop voice, unified communications, and video network experts.

The program is designed for collaboration networking professionals with three to five years of job experience. The program allows students to assess, learn, practice, review, and demonstrate new skills in an integrated environment. The program components are easily accessed from an internet portal and provides assessment results, performance feedback, and progress reports.

The Cisco Expert-Level Program is sold and delivered worldwide by Cisco Authorized Learning Partners who are CCIE certified and trained. For maximum effectiveness, Cisco recommends the entire Cisco Expert-Level Training curriculum including training by Cisco Authorized Learning Partners. However, depending on the student’s skills, individual training components can be purchased separately.
The Cisco Expert-Level Training Components

Learning Management System

The Learning Management System is an online portal where students access learning components, review their results, and track their progress. Students can also schedule practice lab sessions and interact with their mentor and other CCIE Collaboration candidates. The portal offers both students and employers a summary of progress through the curriculum and the ability to set milestones and view success metrics.

Features

- Offers a comprehensive view of student progress
- Facilitates performance management with automatic performance appraisals and skills-gap analysis
- Supports collaborative learning through application-sharing and discussion threads
- Includes all-hours online access for flexible scheduling
- Stays active throughout the entire subscription period

Figures 1 and 2 give a general idea about what the tabbed screens look like.

Figure 1. Assessment Labs Performance Chart
The Cisco Expert-Level Training Components

Figure 2. Roadmap and FAQ

---

The Cisco Expert-Level Training Program for CCIE Collaboration

About Cisco 360 Learning Program for CCIE Collaboration

The program is designed for Voice, Video, Unified Communications, and Collaboration network engineers who may:

- Have three (3) to five (5) years relevant experience
- Want to develop expert-level Collaboration networking skills
- Attempt CCIE Collaboration certification
- Prefer a Cisco-authorized program that aligns to the most recent CCIE Collaboration certification standards

Read full description of Cisco 360 Learning Program for CCIE Collaboration at CLN

Cisco 360 Learning Program for Collaboration Roadmap

Cisco 360 Learning Program for Collaboration Roadmap includes the following components:

- Pre-Assessment Lab — A graded lab, scheduled via the portal on Cisco lab equipment.
- Self-Paced Lessons — There are currently six lessons available. Each lesson includes one or more lectures on a specific technology. Most lessons also include a walk-through on accomplishing specific tasks, such as configuring globalization call routing.
- Practice Lab Workbook — The workbook consists of practice labs and content. Ideally, these practice labs are completed prior to taking Performance Assessments.
- Performance Assessments — There are 10 graded assessment labs that are scheduled on Cisco equipment. Each reservation is 6 hours, and a detailed score report is emailed to you after you have completed the lab. The number of graded assessments available to you will depend on the package you purchased.
- Advanced Instructor-Led Workshop — This 5-day instructor-led workshop is designed to be taken mid-way through your preparation. It includes approximately 30 hours of lecture and 1 graded assessment lab.
- Reference Library — The reference library consists primarily of key sections of the materials from the Lessons and Advanced Workshop. After you have reviewed these materials, you will be able to quickly review the decision diagrams and other key material.

Each student entering the Cisco 360 Learning Program for CCIE Collaboration has a unique background and skill set. To meet the varying needs of our customers, this program is designed to allow you to select the resources needed to assist you in your CCIE Collaboration preparation. Some students may need all components of the program while others only need a few graded assessment labs to feel comfortable with taking...
Lab Topology

Figure 3. Minimal Lab Topology for CCIE Collaboration
The Cisco Expert-Level Training Components

Instructor-Led Workshop

There is a standard 5-day live workshop available for delivery by Cisco certified instructors. They are seasoned CCIE Voice and CCIE Collaboration professionals as well as proven expert-level instructors. The materials are aligned to the most current CCIE Collaboration certification and has been designed according to a set of formal learning objectives. Locate Cisco Authorized Learning Partners.

Cisco Internetworking CIEC Workshop (Figure 4) is an extensive hands-on lab classroom experience. The workshop teaches students how to use an efficient problem-solving process, which includes options analysis. These live workshops are part of a blended learning curriculum that aids learners in preparation for the CCIE Collaboration Lab Exam. The workshop includes an 8-hour Performance Assessment, which is graded and returned with mentor feedback.

Figure 4. Agenda of Instructor-Led Workshop CIEC
The Cisco Expert-Level Training Components

Practice Lab Workbook
The Practice Lab Workbook (see Figure 5) contains 20 hands-on lab scenarios that cover complex configuration and troubleshooting Cisco Collaboration solutions. A Topology Guide specifies the recommended equipment. Students can practice on remote equipment that is rented from a Cisco Authorized Learning Partner or through the Cisco Expert-Level Training program.

Workbook Labs 1 through 15
These labs are focused on specific technologies and Collaborative infrastructure.

Workbook Labs 16 through 20
These labs are focused on specific unified communications applications such as Cisco Unity Connection, Cisco Unified Contact Center Express, and Jabber. It is recommended that you perform these labs after you have completed Workbook Labs 1 through 15.

Features
- Aligned to CCIE Collaboration certification
- Color-coded answer key allows students to match their work against correct configurations
The Cisco Expert-Level Training Components

Figure 5. Sample from the Practice Lab Workbook

Cisco 360 Learning Program

The CCIE Collaboration Workbook v1.0 consists of 20 practice labs with 20 lab rental tokens for Cisco 360 equipment. You may schedule each lab at least once, or retake the lab several times thus consuming 20 allocated tokens. Ideally, these practice labs are completed prior to taking Performance Assessments.

You have 10 Exercise Workbook labs that you can perform on Cisco 360 equipment. Please submit questions or feedback on these labs to 360-cb-laboperations@external.cisco.com.

Schedule a Lab

Exercise Workbook - LAB01
Lab Focus: Device Registration. Prerequisite lab: None

Scenario
Initial IOS Configuration
Answer Key
Master IOS Configuration

Status
Not completed
Change status to completed
Evaluation
How helpful was it?
Rating: 5/5 (1 vote cast)

Comment
Submit

Exercise Workbook - LAB02
Lab Focus: PSTN Dialing. Prerequisite lab: WB Lab 01

Scenario
Initial IOS Configuration
Answer Key
Master IOS Configuration

Figure 5. Sample from the Practice Lab Workbook
Pre-Assessment Lab

Cisco recommends that candidates begin the learning program with the Pre-Assessment Lab (Figure 6). This Lab is an 8-hour diagnostic assessment that is used to measure the student’s competency upon starting the program. An online score report helps the student – with the aid of a mentor who is available through a Cisco Authorized Learning Partner – select the appropriate curriculum and learning program components. Cisco recommends that students take the Preassessment Lab before beginning the program and prior to extensive preparation or study.

True expertise can only be attained through hands-on lab practice. Once you have gained a solid foundation of the CCIE Collaboration related topics, you are ready to perform Collaboration Workbook exercise labs. Each lab scenario will challenge you to consider the full range of configuration options for specific technologies and applications.

Features

- Measures baseline skills and provides a profile of each student’s technical ability
- Information can be used to create a customized learning program to close skill gaps
- Allows mentors to define a learning path and to determine progress
- Includes 24/7 online access for flexible scheduling
### Pre-Assessment Lab

**Figure 6. Sample Pre-Assessment Lab**

#### Cisco 360 Learning Program

<table>
<thead>
<tr>
<th>Exercise Workbook</th>
<th>Assessment Labs</th>
<th>Advanced Workshop 1</th>
<th>Roadmap And Faq</th>
</tr>
</thead>
</table>

**Assessment Lab Report for 360CLB01-LAB-gp01**

- **Username:**
- **Lab date:** Fri Jan 24 19:13:22 2014

**Assessment Report**

<table>
<thead>
<tr>
<th>Step</th>
<th>Task Description</th>
<th>Points Allocated</th>
<th>Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Campus Infrastructure and Services</td>
<td>12 / 12</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Configure Voice VLANs points allocated</td>
<td>3 / 3</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Configure DHCP points allocated</td>
<td>4 / 4</td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>Configure HQ NTP points allocated</td>
<td>3 / 3</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Configure BR2 NTP points allocated</td>
<td>2 / 2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CUCM Endpoints</td>
<td>5 / 5</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>Configure IP Phone Registration points allocated</td>
<td>3 / 3</td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>Configure Phone Display points allocated</td>
<td>2 / 2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>CUCME Endpoints</td>
<td>3 / 5</td>
<td></td>
</tr>
</tbody>
</table>

Gained 53 / 101 Points

52%

[View full description]
The Cisco Expert-Level Training Components

Performance Assessments

Taken independently or as part of a live classroom, Performance Assessments (see Figures 7 and 8) measure the student’s ability to complete voice over IP (VoIP) configuration, video traffic, collaboration configuration and troubleshooting tasks. Each of the three web-enabled graded assessments is 8-hours long. They simulate the actual live lab exam experience. Score reports are accessed online via the Learning Management System and allow students to compare their individual work to the answer key and view detailed feedback on their performance.

Features

- Students can compare the trend of their performance against successful CCIE Collaboration candidates
- Online assessment report offers personalized feedback, corrections, and explanations of best practices
- Saves study time by identifying exactly where students need extra preparation

Figure 7. Sample Performance Assessment: Performance Chart

### Cisco 360 Learning Program

You have performed 4 CLB Assessment Labs with an average score of 47/100.

![Performance Chart](image)
The Cisco Expert-Level Training Components

**Figure 8.** Sample Performance Assessment: Performance Report

The Cisco 360 Learning Program

![Sample Performance Assessment: Performance Report](image)

**Performance Assessments**

- Exercise Workbook
- Assessment Labs
- Advanced Workshop 1
- Roadmap And Faq

**Overview**

- Learning Management System
- Lab Topology
- Instructor-Led Workshop
- Practice Lab Workbook
- Pre-Assessment Lab

**Self-Paced Lessons**

- Reference Library
- Suggested Learning Roadmap
Self-Paced Lessons

Self-Paced Lessons (Figure 9) featuring audio and video instruction are available on demand from the Cisco Expert-Level Learning Management System portal. Each lesson typically includes end-of-module quizzes to check understanding and a mentoring guide that helps students apply their learning on the job.

Features

- Lessons include multiple modules, each 15–30 minutes in length, to fit easily into the student’s schedule
- Split-screen format uses video, audio, slides, and screen views
- Lessons can be downloaded once and replayed as many times as needed
- Lessons are recorded by certified CCIE Collaboration instructors

Figure 9. Self-Paced Lessons
The Cisco Expert-Level Training Components

Reference Library
The Reference Library (Figure 10) features technical articles such as options analysis diagrams, as well as articles on exam preparation strategies. It has been enhanced to include a full curriculum on Collaboration System Release v9.X (CSR v9.X). The library is available online through the Cisco Expert-Level Learning Management System portal.

Features
- Searchable online material and downloadable PDF documents
- Articles on CCIE Collaboration exam-preparation strategies
- Useful study tips

Figure 10. Reference Library for CCIE Collaboration

The Reference Library (Figure 10) features technical articles such as options analysis diagrams, as well as articles on exam preparation strategies. It has been enhanced to include a full curriculum on Collaboration System Release v9.X (CSR v9.X). The library is available online through the Cisco Expert-Level Learning Management System portal.

Features
- Searchable online material and downloadable PDF documents
- Articles on CCIE Collaboration exam-preparation strategies
- Useful study tips

Figure 10. Reference Library for CCIE Collaboration
Suggested Learning Roadmap

Table 1 provides a suggested Learning Roadmap for CCIE Collaboration.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>Study on Your Own</th>
<th>Instructor-Led</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Take Pre-Assessment Lab</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Go through all Self-Paced Lessons</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Workbook Lab 1 - 15 for Collaborative Infrastructure</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Workbook Labs 16 - 20 for IM and Presence, Unity Connection, and Contact Center Express</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Cisco CCIE Collaboration Advanced Workshop (includes Performance Assessment #1 360-CLB-01-LAB-GA01)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>6</td>
<td>Performance Assessment #2 (360-CLB-01-LAB-GA02)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Performance Assessment #3 (360-CLB-01-LAB-GA03)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>