



# Hands-on Cisco Training 2011

- Routing & Switching
- Data Center & Virtualization
- Collaboration, Voice & Video
- Security
- Unified Wireless
- Cisco Advanced Services



## High-end IT Training and -Consulting

The performance and future viability of your company's IT infrastructure hinges on the abilities of the people who run your systems. We provide basic-to-advanced training in high-end technology, honing your people's skills and driving their professional development to benefit your company.

Unified communications, video, security and VPN, virtualization and data centers, wireless networking, optical technologies – Fast Lane has the consultants and training capabilities to meet all your demands in each of these specialized fields. Affording you insight into our full training schedules for the year, this 2011 catalogue is here to help you put together an IT qualification program tailored to your needs.

We also offer training around the globe. You'll find Fast Lane in more than 60 countries on all continents. The recipe for our success: Everything we do, we do to satisfy the highest standards for quality. And our comprehensive evaluation system ensures we live up to these expectations. When you sign up for a Fast Lane class, rest assured you will benefit from hands-on training with the latest devices and in state-of-the-art labs. For example, our Cisco Advanced Technology Labs afford you access to the full range of Cisco technologies, all the way up to the Cisco Data Center.

Our seasoned specialists will be happy to help you put together a training plan geared precisely to your needs, providing all the insight IT professionals need to make the most of forward-looking IT technologies.



We look forward to working with you.

Torsten Poels  
CEO & Chairman of the Board  
Fast Lane



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Please note that pricing may differ between countries.

## High-end IT Training and Consulting

We can help your company gain and develop all the technology skills it needs to rise to high-end challenges. After all, technology is the tool and only those who master it can capitalize on its benefits. Our customers and partners rely on us, and for very good reasons.

Fast Lane provides the IT know-how you need. Virtualization and data center, voice, video and unified communications, security, wireless networking or optical technologies – whatever specialized insight, skills, and consulting you may need, Fast Lane has the right expert for you.

Fast Lane is there for you in 60 countries across all continents. More than 300 Fast Lane employees train and advise major companies in all industries, leading service providers, and government agencies in twelve languages. Serving customers worldwide, Fast Lane head offices are sited in Berlin, Raleigh-NC USA, San Jose de Costa Rica, Ljubljana, St. Petersburg and Tokyo.

Fast Lane is one of the leading Cisco Learning Solutions Partners worldwide. The fastest growing Cisco Learning Solutions Partner (CLSP), Fast Lane offers you the full Cisco training curriculum, from entry-level to specialized high-end courses, in all regions across the globe.

Fast Lane is the only global NetApp Learning Partner. An authorized NetApp training partner, Fast Lane offers original NetApp training programs worldwide. NetApp-certified specialists with extensive storage experiences conduct the training.

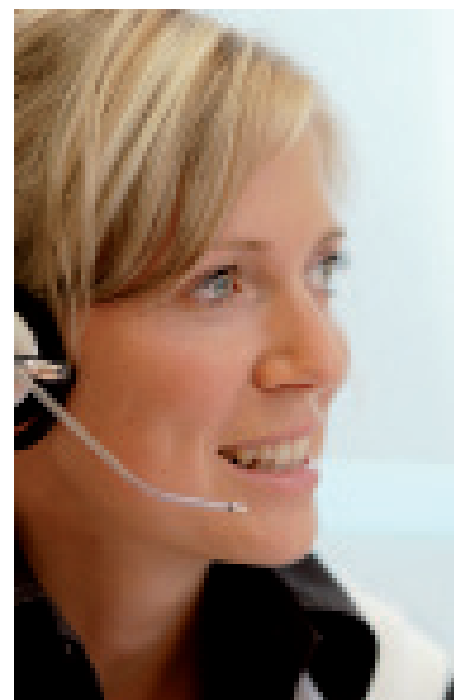
Fast Lane is the training provider of choice when it comes to virtualised data center solutions. As an authorized training partner of Cisco, NetApp, VMware, IBM and Ubuntu we get you ready to rise to the challenges of planning and making the most of future-focused data center solutions.

Fast Lane has developed courses of its own covering all key future technologies. What's more, our offering comprises many other vendors and organizations' training programs, for example, Check Point, CompTIA, Ironport, Wireshark, ITIL, Lotus, Microsoft, and VMware.

Fast Lane gives you access to a lab infrastructure unrivalled worldwide. Fast Lane customers enjoy the use of training and demo labs for all areas of high-end networking. Equipped with the latest devices and technologies, our high-end labs provide first-rate service and raise the bar for training quality. Our project consultants can access these labs from any location.

Fast Lane services satisfy the most discerning demands. A comprehensive evaluation system ensures Fast Lane lives up to the most rigorous quality standards. With professional experience and excellent teaching skills, all our instructors and consultants transfer knowledge efficiently and effectively.

Fast Lane employees' response is swift and courteous. Rest assured you will always enjoy friendly, competent service and a quick response to your every request, even at shortest notice. For example, we can deploy troubleshooting experts within a few hours and organize on-site training including an instructor, equipment, and course materials within 24 hours.



Fast Lane's training offerings are as multifaceted as the diverse Cisco technologies and specialized solutions your company and workforce need.

## CISCO COMPLETE

Fast Lane offers the full range of Cisco training, from entry-level to high-end specialty courses. We can ensure you are prepared to master the challenges of Cisco certification and Specialization.

## CISCO EUROPEAN LEARNING PARTNER OF THE YEAR 2009 & 2010

Fast Lane received the 'Cisco European Learning Partner of the Year' award for the second year in a row.

## CISCO EDUCATION SPECIALIZATIONS

Fast Lane acquired all six available Cisco Education Specializations: Advanced Security, Advanced Wireless LAN, Advanced Routing and Switching, Advanced Data Center Network Infrastructure, Advanced Data Center Storage Networking and Advanced Unified Communications.

## TAILORED COURSES

Our experts will be delighted to tailor and conduct training to suit your wishes.

## TOP INSTRUCTORS

All our instructors are Cisco-certified specialists with extensive practical experience in their specialty fields. For example, 62 CCIEs (Cisco Certified Internetwork Experts) and 80 CCNPs (Cisco Certified Network Professionals) are at your disposal.

## RIGHT THERE ON SITE

We offer regularly scheduled training in many European locations to help you plan and implement your training program to your best benefit.

## CERTIFIED WORLDWIDE

Fast Lane is certified in all regions worldwide as a Cisco Learning Solutions Partner.

## ADVANCED TECHNOLOGY LABS

Putting hands-on exercises and the latest Cisco equipment to good use, we convey the knowledge you need to operate complex network infrastructures.

## CISCO LEARNING CREDITS

Cisco Learning Credits are a convenient and efficient way to purchase and manage Cisco authorized training. They enable customers to increase productivity and improve network optimization while safeguarding training budget and monitoring training expenditures.

## LEARNING CENTER

Our online learning center helps you achieve your certification goals quickly and without administrative effort because we act on your behalf, shouldering all the responsibility for managing certification projects.

### Routing & Switching



### Unified Communications



### TelePresence



### MeetingPlace



### DMS



### Data Center & Virtualization



### Security & VPN



### Wireless LAN



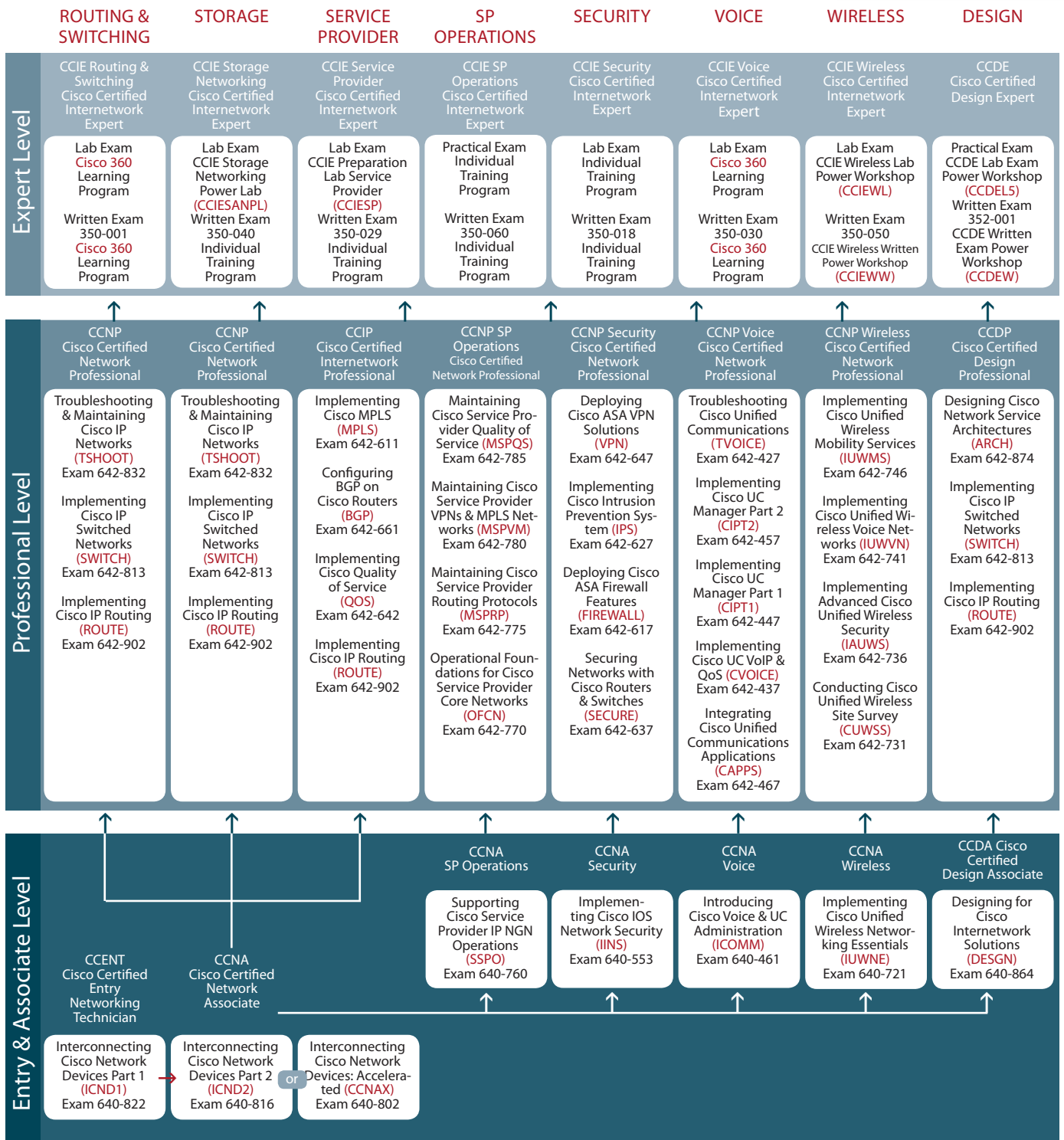
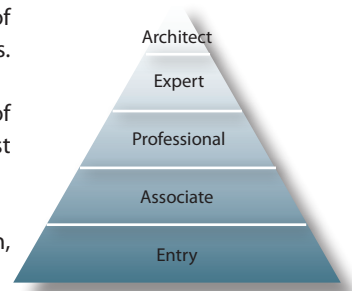
# Cisco Career Certifications



Widely respected throughout the world, Cisco Certifications substantiate the knowledge and skills of certified specialists. They rank among the most sought-after qualifications for internetworking professionals.

Five Certification Levels: Cisco offers five levels of certification: from Entry and Associate, the basic levels of networking certification, to the advanced level of Professional, and up to Expert and Architect, the highest certification level for network specialists.

Eight Certification Tracks: Certification can be attained in various fields: Routing & Switching, Design, Security, Service Provider, Service Provider Operations, Storage Networking, Voice and Wireless.



Next to the general Cisco qualification programs, Cisco Qualified Specialist certifications are available to demonstrate competence in specific technology areas, solutions, and/or job roles: Advanced Routing & Switching, Data Center, Foundation for Channel Partners, Unified Communications & Video, MeetingPlace, Security and Wireless.

## DATA CENTER: NETWORKING INFRASTRUCTURE, APPLICATION SERVICES, STORAGE NETWORKING, UNIFIED COMPUTING

Prerequisites	Recommended Training	Days	Exam
<b>CISCO DATA CENTER APPLICATION SERVICES DESIGN SPECIALIST</b>			
CCDA Certification	DCASD Designing Cisco Data Center Application Services	5	DCASD Exam #642-972
<b>CISCO DATA CENTER APPLICATION SERVICES SUPPORT SPECIALIST</b>			
CCNA Certification	DCASI Implementing Cisco Data Center Application Services	5	DCASI Exam #642-975
<b>CISCO DATA CENTER NETWORKING INFRASTRUCTURE DESIGN SPECIALIST</b>			
CCDA Certification	DCNID Designing Cisco Data Center Network Infrastructure	5	DCNID Exam #642-971
<b>CISCO DATA CENTER NETWORKING INFRASTRUCTURE SUPPORT SPECIALIST</b>			
CCNP Certification	DCNI-1 Implementing Cisco Data Center Network Infrastructure 1	5	DCNIS-1 Exam #642-973
	DCNI-2 Implementing Cisco Data Center Network Infrastructure 2	5	DCNIS-2 Exam #642-974
<b>CISCO DATA CENTER STORAGE NETWORKING DESIGN SPECIALIST</b>			
None	DCSNS Designing Cisco Storage Networking Solutions	5	DCSNS Exam #642-357
<b>CISCO DATA CENTER STORAGE NETWORKING SUPPORT SPECIALIST</b>			
None	ICSNS Implementing Cisco Storage Networking Solutions IASNS Implem. Advanced Cisco Storage Networking Solutions	5 5	ICSNS Exam #642-359
<b>CISCO DATA CENTER NETWORKING SALES SPECIALIST</b>			
CSE Certification	DCNSS Data Center Networking Solution Sales		DCNSS Exam #646-985
<b>CISCO DATA CENTER UNIFIED COMPUTING DESIGN SPECIALIST</b>			
VCP (VMware Certified Professional) PLUS one of the following options: • CCDA Certification and DCUCD 642-978 Qualifier Exam • DCSNS and DCNID Certifications	DCUCD Data Center Unified Computing Design	5	DCUCD Exam #642-982
<b>CISCO DATA CENTER UNIFIED COMPUTING SUPPORT SPECIALIST</b>			
VCP (VMware Certified Professional) PLUS one of the following options: • CCNA Certification and DCUCI 642-979 Qualifier Exam • ICSNS and DCNIS Certifications	DCUCI Data Center Unified Computing Implementation	5	DCUCI Exam #642-983

## SECURITY & VPN

Prerequisites	Recommended Training	Days	Exam
<b>CISCO ASA SPECIALIST</b>			
CCNA Security Certification	SNAF Securing Networks with ASA Fundamentals	5	SNAF Exam #642-524
	SNAA Securing Networks with ASA Advanced	5	SNAA Exam #642-515
<b>Cisco IPS SPECIALIST</b>			
CCNA Security Certification	IPS Implementing Cisco Intrusion Prevention System	5	IPS Exam #642-533
<b>CISCO NETWORK ADMISSION CONTROL SPECIALIST</b>			
CCNA Security Certification	CANAC Implementing Cisco NAC Appliance	3	CANAC Exam #642-591
<b>CISCO SECURITY SOLUTIONS &amp; DESIGN SPECIALIST</b>			
CCDA Certification	SSSE Security Solutions for System Engineers	5	SSSE Exam #642-583
<b>CISCO WEB SECURITY FIELD ENGINEER SPECIALIST</b>			
CCSP Certification	WSCPT Web Security for Channel Partners	2	WSFE Exam #650-568
	LCSAS Cisco Lifecycle Services Advanced Security		LCSAS Exam #650-575
<b>CISCO SECURITY SALES SPECIALIST</b>			
CSE Certification	ASAM Advanced Security for Account Managers		ASAM Exam #646-578

## FOUNDATION FOR CHANNEL PARTNERS

Prerequisites	Recommended Training	Days	Exam
<b>CISCO EXPRESS FOUNDATION DESIGN SPECIALIST</b>			
CCDA Certification	CXFS Cisco Express Foundation SE		CXFS Exam #642-374
<b>CISCO EXPRESS FOUNDATION FIELD SPECIALIST</b>			
CCNA Certification	CXFF Cisco Express Foundation FE		CXFF Exam #642-384
<b>CISCO EXPRESS FOUNDATION SALES SPECIALIST</b>			
CSE Certification	CXFA Cisco Express Foundation AM		CXFA Exam #646-364

## ADVANCED ROUTING & SWITCHING

Prerequisites	Recommended Training	Days	Exam
<b>CISCO ROUTING &amp; SWITCHING FIELD SPECIALIST</b>			
CCNP Certification	ARSFE Advanced Routing & Switching for Field Engineers CWAAS Cisco Wide Area Application Services	3 5	ARSFE Exam #642-067 WAASFE Exam #642-655
<b>CISCO ROUTING &amp; SWITCHING SOLUTIONS SPECIALIST</b>			
CCDA Certification	RSSSE Routing & Switching Solutions for System Engineers CWAAS Cisco Wide Area Application Services	2 5	RSSSE Exam #642-062 WAASSE Exam #642-654
<b>CISCO ROUTING &amp; SWITCHING SALES SPECIALIST</b>			
CSE Certification	ARSAM Advanced Routing & Switching for AMs Cisco Lifecycle Services Express WAASAM Wide Area Application Services for AMs		ARSAM Exam #646-046 WAASAM Exam #646-656

## UNIFIED COMMUNICATIONS & VIDEO

Prerequisites	Recommended Training	Days	Exam
<b>CISCO IP COMMUNICATIONS EXPRESS SPECIALIST</b>			
CCNA Certification	ICOMM Introducing Cisco Voice & UC Administration (ICOMM) IIUC2 Implementing Cisco IOS Unified Communications Part 2 Cisco Lifecycle Services Express	5 5	IIUC2 Exam #642-145 LCSE Exam #650-393
<b>CISCO IP CONTACT CENTER EXPRESS SPECIALIST</b>			
None	UCCXD Unified Contact Center Express & Unified IP IVR	5	UCCX Exam #642-165
<b>CISCO IP COMMUNICATIONS DESIGN SPECIALIST</b>			
CCDA Certification	UCAD Cisco Unified Communications Architecture & Design QOS Implementing Cisco QoS Cisco Lifecycle Services for Advanced Unified Communications	5 5	UCAD Exam #642-415 QOS Exam #642-642 LCSAUC Exam #650-251
<b>CISCO RICH MEDIA COMMUNICATIONS SPECIALIST</b>			
CCNA Certification	ICRMC Implem. Cisco IP Video Conference Rich Media Comm. CVOICE Implementing Cisco Voice Communications & QoS	5	CRMC Exam #642-481 CVOICE Exam #642-436
<b>CISCO UNITY DESIGN SPECIALIST</b>			
CCDA Certification	IUM Implementing Cisco Unified Messaging CUDN Cisco Unity Design & Networking	5 4	CUDN Exam #642-072
<b>CISCO UNITY SUPPORT SPECIALIST</b>			
None	IUC Implementing Cisco Unity Connection	5	IUC Exam #642-262
<b>CISCO UNIFIED PRESENCE SPECIALIST</b>			
None	PRSDI Cisco Unified Presence Design & Implementation	3	PRSDI Exam #642-181
<b>CISCO TELEPRESENCE INSTALLATIONS SPECIALIST</b>			
None	ITI Implementing Cisco TelePresence Installation		ITI Exam #642-188
<b>CISCO TELEPRESENCE SOLUTIONS SPECIALIST</b>			
CCNA Certification	TPBOOT TelePresence Power Workshop	5	ITS Exam #642-185
<b>CISCO ADVANCED IP COMMUNICATIONS SALES SPECIALIST</b>			
CSE Certification	AUCAM Advanced Unified Communications Account Manager Cisco Lifecycle Services Express		AUCAM Exam #646-230 LCSE Exam #650-393
<b>CISCO IP COMMUNICATIONS EXPRESS SALES SPECIALIST</b>			
CSE Certification	UCXAM Unified Communications Express AM Cisco Lifecycle Services Express		UCXAM Exam #646-223 LCSE Exam #650-393

## MEETINGPLACE

Prerequisites	Recommended Training	Days	Exam
<b>CISCO MEETINGPLACE DESIGN SPECIALIST</b>			
CCDA Certification	DMPS Designing Cisco Unified MeetingPlace Solutions	3	DMPS Exam #642-272
<b>CISCO MEETINGPLACE SUPPORT SPECIALIST</b>			
CCNA Certification	IMPS Implementing MeetingPlace Solutions	5	IMPS Exam #642-274
<b>CISCO MEETINGPLACE SALES SPECIALIST</b>			
CSE Certification	SMPS Selling Cisco Unified MeetingPlace Solutions		SMPS Exam #646-276

## WIRELESS LAN

Prerequisites	Recommended Training	Days	Exam
<b>CISCO ADVANCED WIRELESS LAN DESIGN SPECIALIST</b>			
CCDA Certification	CWLF Cisco Wireless LAN Fundamentals CWLAT Cisco Wireless LAN Advanced Topics	4 4	AWLANSE Exam #642-681
<b>CISCO ADVANCED WIRELESS LAN FIELD SPECIALIST</b>			
CCNA Certification	CWLF Cisco Wireless LAN Fundamentals CWLAT Cisco Wireless LAN Advanced Topics	4 4	AWLANFE Exam #642-631
<b>CISCO ADVANCED WIRELESS LAN SALES SPECIALIST</b>			
CSE Certification	WLAS Wireless LAN Advanced Sales		AWLANAM Exam #646-671

Cisco's industry-leading program and certification branding uniquely differentiates you and your solutions, and the way in which you are perceived by customers.

### CERTIFICATION LEVELS: SELECT, PREMIER, SILVER, GOLD

The Cisco Channel Partner Program certification level directly reflects your technology skills breadth across key technologies, to ensure your ability to deliver integrated solutions. There are four partner certification levels:

- Select Certification - requires the Small Business Specialization.
- Premier Certification - requires the Express Foundation Specialization.
- Silver Certification - requires the Express Foundation Specialization, plus either of the two following options: Any two advanced Specializations OR Express Unified Communications Specialization plus one advanced Specialization, excluding the Advanced Unified Communications Specialization.
- Gold Certification - requires all four of the following: Advanced Routing and Switching, Advanced Security, Advanced Unified Communications and Advanced Wireless LAN Specializations for expanded expertise across multiple advanced technologies.

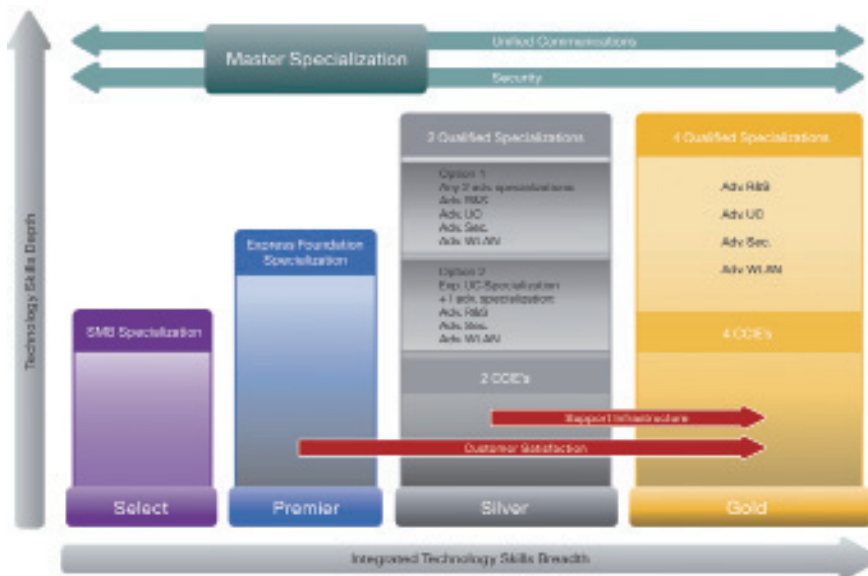
### SPECIALIZATION LEVELS: ENTRY, EXPRESS, ADVANCED, MASTER

Cisco Specializations reflect a partner's skills depth in a particular technology. The Cisco Channel Partner Program offers four levels of Specialization:

- Entry Specialization
- Express Specialization
- Advanced Specialization
- Master Specialization

Each level represents greater capabilities in sales, technical, and lifecycle services. These Specializations concentrate on specific technology areas and offer a way for partners to differentiate themselves in the marketplace. By achieving Specializations, partners have proven they have the sales, technical, and lifecycle services expertise to plan, design, implement, and operate business solutions in customer environments.

Cisco Resale Partner Program Framework



### CONTACT US.

Feel free to contact your nearest Fast Lane location if you have any questions about the Cisco Channel Partner Program - we'll be delighted to hear from you. You can find the contact details on the back cover.

## Select Partner

Specialization Requirements	Account Manager	Engineer	Certified Individuals
Small Business	Cisco SMB Account Manager	Cisco SMB Engineer	1 or 2

## Premier Partner

Specialization Requirements	Account Manager	System Engineer	Field Engineer	Certified Individuals
Express Foundation	CSE	CCDA	CCNA	3

## Silver Partner

Specialization Requirements*	Account Manager	System Engineer	Field Engineer	Certified Individuals
Express Unified Communications	CSE	CCDA or CCNA		2
Advanced Routing & Switching	CSE	CCDA	CCNP	3
Advanced Unified Communications	CSE	CCDA	CCVP	3
Advanced Security	CSE	CCDA	CCSP	3
Advanced Wireless LAN	CSE	CCDA	CCNA	3

\* A Silver Partner requires two Advanced Specializations (Express Unified Communications can be substituted for one of the Advanced Specializations but cannot be combined with Advanced Unified Communications Specialization.)

In order to satisfy Silver certification requirements a partner must also have 2 CCIEs (these can satisfy any technical specialization role).

## Gold Partner

Specialization Requirements	Account Manager	System Engineer	Field Engineer	Certified Individuals
Advanced Routing & Switching	CSE	CCDA	CCNP	3
Advanced Unified Communications	CSE	CCDA	CCVP	3
Advanced Security	CSE	CCDA	CCSP	3
Advanced Wireless LAN	CSE	CCDA	CCNA	3

In order to satisfy Gold certification requirements a partner must also have 4 CCIEs (these can satisfy any technical Specialization role).



# Cisco Channel Partner Program: Training by Specialization



## Small Business Specialization

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>SMALL BUSINESS</b>				
AM	None		SMB Solutions for Account Managers E-Learning	SMBAM Exam #650-177
SE	None		SMB Solutions for Engineers E-Learning	SMBE Exam #650-195

## Express Specialization

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>EXPRESS FOUNDATION</b>				
AM	CSE Certification	Cisco Express Foundation Sales Specialist	CXFA Express Foundation AM	CXFA Exam #646-364
SE	CCDA Certification	Cisco Express Foundation Design Specialist	CXFS Express Foundation SE	CXFS Exam #642-374
FE	CCNA Certification	Cisco Express Foundation Field Specialist	CXFF Express Foundation FE	CXFF Exam #642-384

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>EXPRESS UNIFIED COMMUNICATIONS</b>				
AM	CSE Certification	Cisco IP Communications Express Sales Specialist	Unified Communications Express AM Cisco Lifecycle Services Express	UCXAM Exam #646-223 LCSE Exam #650-393
SE	CCNA Certification	Cisco IP Communications Express Specialist	ICOMM Introducing Cisco Voice & UC Administration IIUC2 Implementing Cisco IOS UC Part 2 Cisco Lifecycle Services Express	IIUC2 Exam #642-145 LCSE Exam #650-393

## Advanced Specialization

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>ADVANCED UNIFIED COMMUNICATIONS</b>				
AM	CSE Certification	Cisco Advanced IPC Sales Specialist	AUCAM Advanced Unified Communications Account Manager Cisco Lifecycle Services Express	AUCAM Exam #646-230 LCSE Exam #650-393
SE	CCDA Certification	Cisco IPC Design Specialist	UCAD Cisco UCs Architecture & Design QOS Cisco Quality of Service Cisco Lifecycle Services for Advanced UC	UCAD Exam #642-415 QOS Exam #642-642 LCSAUC Exam #650-251
FE	CCVP Certification		Cisco Lifecycle Services for Advanced Unified Communications	LCSAUC Exam #650-251
<b>Further Requirements*</b>				
	None	Cisco Unified Contact Center Express Specialist	UCCXD Unified Contact Center Express & Unified IP IVR Deployment	UCCX Exam #642-165
	CCDA Certification	Cisco Unity Design Specialist	CUDN Cisco Unity Design & Networking IUM Implementing Cisco Unified Messaging	CUDN Exam #642-072
	MCSE Messaging on Windows Server 2003 recommended	Cisco Unity Support Specialist	IUC Implementing Cisco Unity Connection	IUC Exam #642-262
	CCNA Certification	Cisco Rich Media Communications Specialist	ICRMC Implementing Cisco IP Video Conference Rich Media Communications CVOICE Implementing Cisco Voice Communications & QoS	CRMC Exam #642-481 CVOICE Exam #642-436

\* In addition to the above unique individual role requirements, the following Cisco Qualified Specialist badges are required for Advanced Unified Communications Specialization: Cisco Rich Media Communications Specialist, Cisco Unified Contact Center Express Specialist, Cisco Unity Design Specialist, Cisco Unity Support Specialist

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>ADVANCED ROUTING &amp; SWITCHING</b>				
AM	CSE Certification	Cisco Routing & Switching Sales Specialist	Advanced Routing & Switching for AMs Cisco WAAS for AMs Cisco Lifecycle Services Express	ARSAM Exam #646-046 WAASAM Exam #646-656
SE	CCDA Certification	Cisco Advanced Routing & Switching Solutions Specialist	QOS Cisco Quality of Service ROUTE Implementing Cisco IP Routing RSSSE Routing & Switching Solutions for System Engineers CWAAS Wide Area Application Services	RSSSE Exam #642-062 WAASSE Exam #642-654
FE	CCNP Certification	Cisco Advanced Routing & Switching Field Specialist	QOS Cisco Quality of Service ARSFE Advanced Routing & Switching for Field Engineers CWAAS Wide Area Application Services	ARSFE Exam #642-067 WAASFE Exam #642-655

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>ADVANCED SECURITY</b>				
AM	CSE Certification	Cisco Security Sales Specialist	ASAM Advanced Security for Account Managers	ASAM Exam #646-578
SE	CCDA Certification	Cisco Security Solutions & Design Specialist	SSSE Security Solutions for System Engineers	SSSE Exam #642-583
FE	CCSP or CCIE Security Certification	Cisco Web Security Field Engineer Specialist	WSCPT Web Security for Channel Partners Lifecycle Services Advanced Security	WSFE Exam #650-568 LCSAS Exam #650-575

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>ADVANCED WIRELESS LAN</b>				
AM	CSE Certification	Cisco Advanced Wireless LAN Sales Specialist	WLAS Wireless LAN Advanced Sales Cisco Lifecycle Services Express	AWLANAM Exam #646-671
SE	CCDA Certification	Cisco Advanced Wireless LAN Design Specialist	CWLF Cisco Wireless LAN Fundamentals CWLAT Cisco WLAN Advanced Topics Lifecycle Services for Advanced WLAN	AWLANSE Exam #642-681
FE	CCNA Certification	Cisco Advanced Wireless LAN Field Specialist	CWLF Cisco Wireless LAN Fundamentals CWLAT Cisco WLAN Advanced Topics Lifecycle Services for Advanced WLAN	AWLANFE Exam #642-631



**CONTACT US.**

Fast Lane offers training courses that effectively prepare network specialists for the various Cisco Certifications. Feel free to contact your nearest Fast Lane location if you have any questions about our offering - we'll be delighted to hear from you. You can find the contact details on the back cover.

# Cisco Channel Partner Program: Training by Specialization



## Optional Specializations

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>ADVANCED DATA CENTER NETWORKING INFRASTRUCTURE</b>				
AM	CSE Certification	Cisco Data Center Networking Sales Specialist	DCNSS Data Center Networking Solution Sales	DCNSS Exam #646-985
SE	CCDA Certification	Cisco Data Center Networking Infrastructure Design Specialist	DCNID Designing Cisco Data Center Network Infrastructure	DCNID Exam #642-971
FE	CCNP Certification	Cisco Data Center Networking Infrastructure Support Specialist	DCNI-1 Implementing Cisco Data Center Network Infrastructure 1 DCNI-2 Implementing Cisco Data Center Network Infrastructure 2	DCNIS-1 Exam #642-973 DCNIS-2 Exam #642-974
	CCDA Certification	Cisco Data Center Application Services Design Specialist	DCASD Designing Cisco Data Center Application Services	DCASD Exam #642-972
	CCNA Certification	Cisco Data Center Application Services Support Specialist	DCASI Implementing Cisco Data Center Application Services	DCASI Exam #642-975

Job Role	Prerequisites	Cisco Career Certification	Recommended Training	Exam
<b>ADVANCED DATA CENTER STORAGE NETWORKING</b>				
AM	CSE Certification	Cisco Data Center Networking Sales Specialist	DCNSS Data Center Networking Solution Sales	DCNSS Exam #646-985
SE	None	Cisco Data Center Storage Networking Design Specialist	DCSNS Designing Cisco Storage Networking Solutions	DCSNS Exam #642-357
FE	None	Cisco Data Center Storage Networking Support Specialist	ICSNS Implementing Cisco Storage Networking Solutions IASNS Implementing Advanced Cisco Storage Networking Solutions	ICSNS Exam #642-359

## Master Specialization

The Cisco Master Specialization is targeted at an elite group of partners that have the most in-depth technology skills and have demonstrated success in selling, deploying, and providing services for more sophisticated Cisco solutions. Partners with a highly qualified practice in a given technology can achieve Master Specialization regardless of their certification level. Additionally, Master Specialization provides a higher level of distinction for partners and helps to highlight the expertise they bring to their field. Cisco currently offers the Master Unified Communications Specialization and Master Security Specialization. To achieve a Master Specialization, partners must first achieve the advanced Specialization in that technology. Partners must then meet stringent requirements that demonstrate their capabilities, and establish a customer success track record in the following three areas:

- **Selling capability:** Sales skills, sales personnel investments, product and solution knowledge, Cisco prescribed demonstration capabilities, and customer references that include Cisco prescribed solution and services.
- **Technical capability:** Additional technical personnel requirements, including additional CCIE certified individuals.
- **Services capability and methodology:** Ability to provide services assessment across the Prepare, Plan, Design, Implement, Operate, and Optimize phases of the Cisco Lifecycle Services approach; ability to meet ISO prescribed skills for specific Cisco services.



### CONTACT US.

Feel free to contact your nearest Fast Lane location if you have any questions about Cisco Master Specializations - we'll be delighted to hear from you. You can find the contact details on the back cover.

## Interconnecting Cisco Network Devices 1 (ICND1)

ID CI-ICND1 Price \$2,995 or 30 CLC's Duration 5 Days

### PREREQUISITES

- None



### COURSE CONTENT

- Building a Simple Network
- Ethernet Local Area Networks
- Wireless Local Area Networks
- Exploring the Functions of Routing
- Wide Area Networks
- Network Environment Management

## Interconnecting Cisco Network Devices 2 (ICND2)

ID CI-ICND2 Price \$2,995 or 30 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1) course

### COURSE CONTENT

- Small Network Implementation
- Medium-Sized Switched Network Construction
- Medium-Sized Routed Network Construction
- Single Area OSPF Implementation
- EIGRP Implementation
- Access Control Lists
- Address Space Management
- LAN Extension in to a WAN



## Implementing Cisco IP Switching (SWITCH)

ID CI-SWITCH Price \$2,995 or 30 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 1 (ICND1) and Interconnecting Cisco Network Devices 2 (ICND2) courses



### COURSE CONTENT

- Analyzing Campus Network Designs
- Implementing VLANs in Campus Networks
- Implementing Spanning Tree
- Implementing Inter-VLAN Routing
- Implementing a Highly Available Network
- Implementing Layer 3 High Availability
- Minimizing Service Loss and Data Theft in a Campus Network
- Accommodating Voice and Video in Campus Networks
- Integrating WLANs into a Campus Network

## Troubleshooting & Maintaining Cisco IP Networks (TSHOOT)

ID CI-TSHOOT Price \$2,995 or 30 CLC's Duration 5 Days

### PREREQUISITES

- Implementing Cisco IP Routing (ROUTE) and Implementing Cisco IP Switching (SWITCH) courses

### COURSE CONTENT

- Planning Maintenance for Complex Networks
- Planning Troubleshooting Processes for Complex Enterprise Networks

- Maintenance & Troubleshooting Tools and Applications
- Maintaining & Troubleshooting Campus Switching Based Solutions
- Maintaining & Troubleshooting Routing Based Solutions
- Maintaining & Troubleshooting Network Security Solutions
- Maintaining & Troubleshooting Integrated, Complex Enterprise Networks

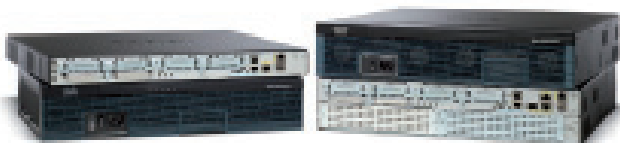


## Implementing Cisco IP Routing (ROUTE)

ID CI-ROUTE Price \$2,995 or 30 CLC's Duration: 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 1 (ICND1) and Interconnecting Cisco Network Devices 2 (ICND2) courses



### COURSE CONTENT

- Planning Routing Services to Requirements
- Implementing an EIGRP based Solution
- Implementing a Scalable Multiarea Network OSPF Based Solution
- Implementing an IPv4-based Redistribution Solution
- Implementing Path Control
- Connecting an Enterprise Network to ISP Networks

# CCNP Blended Learning Boot Camp (CCNPBLBC)

ID FL-CCNPBLBC Price \$ 6,625 or 67 CLC's Duration 8 Days

## PREREQUISITES

- valid CCNA certification at least 30 days prior to the start date of class & the self-paced assessments and eLearning

## COURSE CONTENT

- Analyze campus network designs
- Implement VLANs in a network campus
- Implement spanning tree
- Implement inter-VLAN routing in a campus network
- Implement a highly available network
- Implement high-availability technologies and techniques using multilayer switches in a campus environment
- Implement security features in a switched network
- Integrate WLANs into a campus network
- Accommodate voice and video in campus networks
- Plan and document the configuration and verification of routing protocols and its optimization in enterprise networks
- Identify the technologies, components, and metrics of EIGRP to implement and verify EIGRP routing in diverse, large-scale internetworks based on requirements
- Identify, analyze, and match OSPF multi-area routing functions and benefits for routing efficiencies in network operations in order to implement and verify OSPF routing in a complex enterprise network
- Implement and verify a redistribution solution in a multi-protocol network that uses IOS features to control path selection and loop free topology according to a given network design and requirements
- Evaluate common network performance issues and identify the tools needed to provide a layer 3 path control that uses IOS features to control the path
- Implement and verify a layer 3 solution using BGP to connect an enterprise network to a service provider
- Plan and document the most commonly performed maintenance functions in complex enterprise networks
- Develop a troubleshooting process to identify and resolve problems in complex enterprise networks
- Select tools that best support specific troubleshooting and maintenance processes in large, complex enterprise networks
- Practice maintenance procedures and fault resolution in switching, routing based environments and in a secure infrastructure
- Practice maintenance procedures and fault resolution problems in a complex environment
- Maintaining & Troubleshooting Network Security Solutions
- Maintaining & Troubleshooting Integrated, Complex Enterprise Networks





# Cisco 360 Learning Program: CCIE Routing & Switching

The Cisco CCIE 360 Learning Program for Routing & Switching is intended to accelerate the skills and competencies of networking professionals, who have at least three years of experience, to an expert level of expertise. The program offers multiple learning products and services intended to be blended together to provide a customised learning program to prepare for the CCIE R&S lab exam. Components can be matched to each student's skill level, learning preference, and resources for maximum flexibility.

The Cisco 360 Learning Program also includes two hands-on instructor-led classes, Cisco Internetwork Expert Routing & Switching Part 1 & 2.



## Cisco Internetwork Expert Routing & Switching 1 (CIERS1)

ID CI-CIERS1 Price \$4,195 or 42 CLC's Duration 5 Days

### PREREQUISITES

- Knowledge of the entire Link-Layer series, Blocks 1 and 3 of the Frame-Relay series, The entire IGP series and the entire BGP series

### COURSE CONTENT

- Frame-Relay
- Cisco Catalyst 3550/3560 Essentials (port assignment, trunking, VTP, EtherChannel, Layer 3 Connectivity and Spanning Tree)
- IGP's (OSPF, EIGRP and RIPv2)
- Redistribution
- BGP
- IP Multicast
- \* IPv6
- \* Router and Cisco Catalyst 3560 QoSs

Includes more than 16 hours of Instructor Led Training, lab guide and more than 32 hours of assessment labs including instructor time and feedback to provide student mentoring and support

Incl. new topics for CCIE R&S Version 4:

- Planning and evaluating network changes
- Implementing performance routing, optimised edge routing, EIGRPv6, filtering and route distribution
- IPv6 Multicast
- MPLS and Layer 3 VPN

## Cisco Internetwork Expert Routing & Switching 2 (CIERS2)

ID CI-CIERS2 Price \$4,895 or 49 CLC's Duration 5 Days

### PREREQUISITES

- Cisco Internetwork Expert Routing & Switching 1 (CIERS1) Knowledge of the entire Link-Layer series, Blocks 1 and 3 of the Frame-Relay series, The entire IGP series and the entire BGP series

- Perform Graded Assessment Lab #4 (8 hours)
- Review Graded Assessment Lab #4
- Perform Graded Assessment Lab #5 (4 hours)
- Review Graded Assessment Lab #5Planning

### COURSE CONTENT

- Course Introduction and Review of Problem Solving Approach
- Perform Graded Assessment Lab #1 (8 hours)
- Review Graded Assessment Lab #1
- Perform Graded Assessment Lab #2 (8 hours)
- Review Graded Assessment Lab #2
- Perform Graded Assessment Lab #3 (8 hours)
- Review Graded Assessment Lab #3

60%  
lecture and  
40% hands-on  
lab exercises



# Cisco Catalyst 6500 Training

## Advanced Catalyst 6500 Switching (CAT6KS)

ID FL-CAT6KS Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- CCNP certification or comparable experience

### COURSE CONTENT

- Options and Hardware available for the Catalyst 6500 Switches: Chassis, Line Card, Supervisor, MSFC, PFC, SFM, DFC, Power Supplies, Architecture, Service Modules Overview
- Virtual Switching System 1440 Architecture, Operation and Configuration
- Deploying and Examining IOS Software Modularity
- Recovering the Supervisor Password
- Managing and Upgrading IOS on Catalyst 6500
- VLAN Enhancements: VTP and Trunk Configuration Guidelines and Restrictions
- Spanning Tree, Rapid and Multiple Spanning-Tree Operation
- Spanning-Tree Enhancements: BPDU Guard and Filter, Root Guard, Loop Guard, PortFast, UplinkFast, BackboneFast
- Using Unidirectional Link Detection
- Using EtherChannel incl. MultiChassis EtherChannel in VSS mode
- Configuring NetFlow and NDE
- Understanding and Implementing Catalyst 6500 QoS options
- Deploying and Examining Embedded Event Manager

- Utilizing Automated Diagnostics
- Implementing SPAN, RSPAN, and ERSPAN
- Implementing High Availability Features (HSRP, FHRP, VRRP, GLBP)
- Implementing Catalyst 6500 Stateful Switchover options
- Network Security Enhancements



## Catalyst 6500 & Cisco 7600 Series Routers Firewall Services Module Deployment (FWSMD)

ID FL-FWSMD Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Experience of configuring Cisco IOS Software
- CCNA certification or similar knowledge
- Familiarity with Network and Security Concepts

### COURSE CONTENT

- Catalyst 6500 Family and Advanced Services Modules overview
- Firewall Services
- Configuration of the switch for the FWSM
- Implementing the FWSM
- Translations and Connections
- Access Control Lists and Content Filtering
- Grouping of objects
- IP Routing
- Cisco Modular Policy Framework
- Advanced Protocol Handling
- Transparent Firewall Mode
- Cisco Adaptive Security Device Manager
- Authentication, Authorization and Accounting
- Deployment of the FWSM within multiple contexts

- Failover
- FWSM Management
- Site-to-Site & Remote Access VPN for FWSM Remote Management
- FWSM Troubleshooting
- Cisco Security Manager



# Multi Vendor Data Center Training



## Virtual Dynamic Data Center (VDDC)

ID FL-VDDC Price \$795 Duration: 1 Day

### PREREQUISITES

- Basic knowledge about networking, Virtualization and storage

### COURSE CONTENT

- Data Center of the Future with Cisco, NetApp and VMware
- Data Center Strategy: Consolidation, Virtualization, Integration, Automation
- Customers Requirements
- Cisco Data Center 3.0
- Unified Fabric Concept
- Dynamic Data Center (DDC): NetApp Unified Storage & Cisco Unified Computing

- Virtualization (Server and Desktop with VMware, Storage with NetApp), Cloud Infrastructures
- Market Trends



## Implementing Enhanced Secure Multi-Tenancy Solutions (IESMT)

ID FL-IESMT Price \$4,500 or 45 CLC's or 60 NTU's Duration 5 Days

### PREREQUISITES

- Intermediate knowledge in switching, routing, data center architecture and protocols, VMware ESX server Virtualization and vSphere, NetApp storage, backup and disaster recovery technologies

### COURSE CONTENT

- Understanding Secure Multi-Tenant Environments
- Introduction to the Cisco Unified Computing System (UCS)
- Compute Node Connectivity
- Cisco Unified Computing System Manager
- Cisco Unified Computing System Maintenance

- Configuring NetApp Storage in a Multi-Tenant Environment
- Storage High Availability, Backup and Disaster Recovery in a Multi-Tenant Environment
- Managing Data on NetApp MultiStore
- NetApp MultiStore Management Tools
- NetApp MultiStore Performance and Troubleshooting
- Configuring the VMware Virtualised Environment
- VMware Virtual Networking
- VMware High Availability and Security in a Multi-Tenant Environment
- Integration: Putting It All Together

## Implementing Vblock (VBLOCK-TECH)

ID FL-VBLOCK-TECH Price \$4,500 or 45 CLC's Duration 5 Days

### PREREQUISITES

- Intermediate knowledge in switching, routing, data center architecture and protocols, VMware ESX server Virtualization and vSphere, EMC<sup>2</sup> storage, backup and disaster recovery technologies

### COURSE CONTENT

- Data Center
  - Data Center Challenges
  - Data Center Solutions
  - Vblock Architecture
  - Differences between the 3 Vblocks (0, 1, 2)
- Cisco Unified Computing System (UCS)
  - Introduction to the UCS System
  - Compute Node Connectivity
  - Cisco Unified Computing System Manager

- Cisco Unified Computing System Maintenance
- EMC<sup>2</sup> Storage
  - EMC<sup>2</sup> Storage Portfolio: Celerra ('Vblock 0'), Clariion ('Vblock 1'), Symmetrix ('Vblock 2')
  - Configuring EMC<sup>2</sup> Storage
  - EMC<sup>2</sup> Storage High Availability, Backup and Disaster Recovery Options
  - Managing Data on EMC<sup>2</sup> Storage
  - EMC<sup>2</sup> Storage Management Tools
  - EMC<sup>2</sup> Storage Performance and Troubleshooting
- VMware vSphere
  - Configuring the VMware Virtualised Environment
  - VMware Virtual Networking
  - VMware High-Availability and Security

## Unified Computing Systems Architectural Overview (UCSAO)

ID FL-UCSAO Price \$895 or 9 CLC's Duration 1 Day

### PREREQUISITES

- Basic understanding of data center architectures

### COURSE CONTENT

- Data Center Architecture: Data Center Scalability; Cisco Data Center 3.0; LAN Architecture Overview; SAN Architecture Overview; Unified I/O and FCoE; CNAs and server connectivity; Data Center Bridging (DCB)
- Server Evolution: CPU and Memory Evolution; Server Consolidation; Server Virtualization; VMware vSphere Architecture; Nexus 1000V Overview; Server Management

- Application Overview: Application Tiers; Application Deployment Models; Application Requirements
- Cisco Unified Computing System: UCS Overview; UCS B-Series components; UCS C-Series components; UCS scalability; UCS Manager; Service Profiles; BMC Bladelogic; UCS Deployment; Use cases

## Data Center Architectural Overview (DCAO)

ID FL-DCAO Price \$895 or 9 CLC's Duration 1 Day



### PREREQUISITES

- An understanding of Data Center LAN and SAN architectures would be an advantage

### COURSE CONTENT

- Data Center Architecture
- Nexus 7000 - Core Switch
- Nexus 5000 - Access Layer Switch
- Nexus 2000 - Fabric Extender (FEX)
- Nexus 4000 - FCoE Blade Switch

- Nexus 1000V
- Unified Computing System
- Case Study - Building a Data Center with Nexus and UCS

## Implementing Data Center Application Services (DCASI)

ID CI-DCASI Price \$3,295 or 33 CLC's Duration 5 days

### PREREQUISITES

- Basic understanding of the following topics: The TCP/IP protocol, the HTTP and SSL protocols, N-tier application architecture, Server load-balancing

### COURSE CONTENT

- Data Center Application Services Overview
- Implementing Server Load Balancing
- Implementing Web Application Acceleration
- Implementing Site-to-Site Load Balancing
- Redundancy and Troubleshooting



## Data Center Unified Computing Design (DCUCD)



ID CI-DCUCD Price \$3,495 or 35 CLC's Duration 5 Days

### PREREQUISITES

- CCNA certification
- MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level Knowledge
- VMware Certified Professional (VCP)
- Designing Cisco Storage Networking Solutions (DCSNS) and Data Center Network Infrastructure Design (DCNID) courses

### COURSE CONTENT

- Data Center Computing Solutions
- Cisco Data Center Unified Computing Solution Components
- Cisco Data Center Unified Computing Solution Benefits
- Unified Computing System Implementation Aspects
- Evaluate Existing Data Center Computing Solutions
- Design Cisco Data Center Unified Computing Solutions
- Evaluate Cisco Data Center Unified Computing Solutions

## Data Center Unified Computing Implementation (DCUCI)

ID CI-DCUCI Price \$3,495 or 35 CLC's Duration 5 Days

### PREREQUISITES

- CCNA certification
- MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500, and ACE Engineer Level Knowledge
- VMware Certified Professional (VCP)
- Implementing Cisco Storage Networking Solutions (ICSNS) and Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2) courses

### COURSE CONTENT

- Understanding how Cisco UCS Benefits today's Data Center
- Cisco's Unified Computing System: UCS Hardware

### Components & UCS Features

- Understanding User Management
- Understanding the Chassis Array Manager (CAM) Conceptual Overview
- Explaining the Implementation of Server Resources via the Unified Computing System
- Maintaining a Cisco Unified Computing System
- Monitoring, Diagnostics & Troubleshooting the Cisco Unified Computing System
- Designing Cisco Unified Computing System Deployment

## Data Center Network Infrastructure Design (DCNID)

ID CI-DCNID Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Designing for Cisco Internetwork Solutions (DESGN), Implementing Cisco IOS Network Security (IINS) and Security Solutions for System Engineers (SSSE) courses

### COURSE CONTENT

- Data Center Objectives: Key Data Center Concerns and Objectives; Data Center Environmental Requirements; Data Center Networking Components: Cisco Platforms and Modules

- Cisco Nexus 7010 Switch: Hardware Architecture; Software Architecture; Continual Availability; Network Management; Security Overview; QoS implementation on NX 7010; Cisco Nexus 7010 position in the DC network
- Cisco Nexus 5000 Switch: Introduction to Fibre Channel over Ethernet (FCoE); Introduction to Cisco Nexus 5000 Switch; Cisco Nexus 5000 Switch Design Overview
- Data Center Design: Overview; Data Center Application Design

## Designing Data Center Application Services (DCASD)

ID CI-DCASD Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Basic understanding of the following topics: The TCP/IP protocol, the HTTP and SSL protocols, N-tier application architecture, Server load-balancing

### COURSE CONTENT

- Data Center Application Services Overview
- Designing Server Load Balancing Solutions
- Designing Web Application Acceleration Solutions
- Designing Site-to-Site Load Balancing Solutions
- Optimizing the DCAS Solution

## Implementing Cisco Data Center Network Infrastructure 1 (DCNI-1)

ID CI-DCNI-1 Price \$3,295 or 33 CLC's Duration: 5 Days

### PREREQUISITES

- CCNP or CCIE Routing & Switching certification status or equivalent knowledge

### COURSE CONTENT

- Implementing the Catalyst 6500, 4900 and Blade Switches
- Implementing FWSM for a Data Center Network Infrastructure
- Implementing Network Analysis with NAM
- Implementing High Availability Data Center Features

## Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2)

ID CI-DCNI-2 Price \$3,295 or 33 CLC's Duration: 5 Days

Real Nexus  
Hardware for  
all Lab  
Activities!

### PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2), Implementing Cisco IP Switching (SWITCH), Implementing Cisco IP Routing (ROUTE) and Troubleshooting & Maintaining Cisco IP Networks (TSHOOT) courses

### COURSE CONTENT

- Using the Cisco Nexus 7000 in Data Center Networks
  - Understanding the Cisco Nexus 7000 Series Switches
  - Overview of the Cisco Nexus 7000
  - Introducing the Virtual Device Contexts in the Cisco Nexus 7000
  - Managing the Cisco Nexus 7000
  - Cisco Nexus 7000 & Cisco NX-OS Layer 2 Protocols & Features
  - Cisco Nexus 7000 & Cisco NX-OS Layer 3 Protocols & Features

- Cisco Nexus 7000 & Cisco NX-OS Quality of Service
- Cisco Nexus 7000 & Cisco NX-OS Security
- Troubleshooting
- Using the Cisco Nexus 5000 & 2000 in Data Center Networks
  - Overview of the Cisco Nexus 5000 & Cisco Nexus 2000
  - Understanding Fibre Channel
  - Implementing an FCoE Network Using Cisco Nexus 5000 Switches



## Cisco Wide Area Application Services (CWAAS)

ID CI-CWAAS Price \$3,295 or 28 CLC's Duration: 5 Days

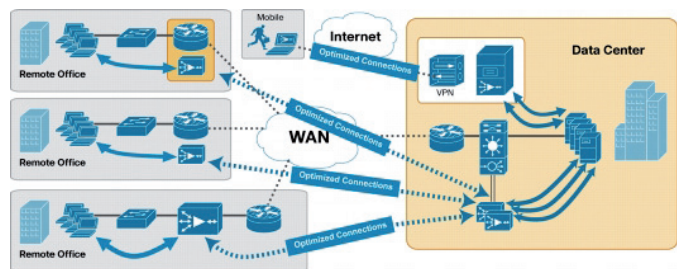
### PREREQUISITES

- CCNA certification or equivalent knowledge

### COURSE CONTENT

- Cisco Wide-Area Application Services
  - Introducing Cisco WAAS
  - Understanding WAN Optimization
  - Understanding Application Acceleration
- Cisco WAAS Quick Start
  - Introducing Traffic Interception
  - Installing and Configuring Cisco WAAS Using Quick Start
- Implementation, Integration, and Management
  - Performing an Advanced Cisco WAE Installation and Configuration
  - Configuring Traffic Interception
  - Implementing Cisco WAAS Central Management
  - Configuring Application Traffic Policies
  - Configuring Cisco WAAS Virtualization
- Cisco WAAS Application Optimizers
  - Configuring CIFS Optimization
  - Configuring Cisco WAAS Windows Network Printing
  - Configuring NFS Optimization
  - Configuring HTTP Optimization

- Configuring Streaming Video Optimization
- Configuring MAPI Optimization
- Configuring SSL Optimization
- Cisco WAAS Design and Troubleshooting
  - Planning a Cisco WAAS Network Design
  - Troubleshooting Introduction
  - Troubleshooting Network Interception
  - Troubleshooting WAN Optimization
- Cisco WAAS Mobile Client Solution
  - Installing Cisco WAAS Mobile
  - Configuring Cisco WAAS Mobile Options
  - Troubleshooting Cisco WAAS Mobile



## ACE XML Gateway Operations & Configuration (AXGOC)

ID CI-AXGOC Price \$1,895 or 19 CLC's Duration 2 Days

### PREREQUISITES

- Basic understanding of the following topics: TCP/IP, HTTP and SSL protocols, XML, N-tier application architecture

### COURSE CONTENT

- Application Security
- Introducing the ACE XML Gateway
- Deploying the ACE XML Gateway
- Securing Communications with SSL

- Message Level Security
- Advanced Deployment Options
- Troubleshooting the ACE XML Gateway



## Cisco Nexus Overview Workshop (CNOW)

ID FL-CNOW Price \$895 or 9 CLC's Duration 1 Day

### PREREQUISITES

- CCNA Certification or equivalent knowledge

### COURSE CONTENT

- Cisco Nexus Family Overview: Nexus 7000; Nexus 5000; Nexus 2000; Nexus 1000V; NX-OS
- The Nexus 5000 Series Switch: Data Center challenges; I/O Consolidation; Nexus 5000 Architecture Overview; FCoE Server Adapters; Management of the Nexus 5000
- The Nexus 2000 Fabric Extender: Architecture of the Access Switch; Nexus 2000 Access Layer Design
- The Nexus 1000V Virtual Switch: Overview of the Virtual Environment; VN-Link; VM Provisioning
- The Nexus 7000 Core Switch: Data Center Core Requirements; Nexus 7000 Deployment, Nexus 7000 Integrated Core
- Virtual Data Center Architecture: Data Center Network Overview; Access Layer Designs



## Implementing the Cisco Nexus 1000V Switch v 1.00 (DCNX1K)

ID FL-IDCNX1K Price \$2,495 or 25 CLC's Duration: 3 Days

### PREREQUISITES

- Intermediate knowledge of switching, routing and data center architectures and protocols, as well as an understanding of server virtualization techniques

### COURSE CONTENT

- Modern Server Architecture Scalability & Consolidation
- Network Virtualization & Consolidation in DC Bridging Networks
- Data Center Application High-Availability
- NIV on ESX using Cisco Nexus Hardware Switches
- Nexus 1000 VEM (NX-OS) Features & Functions
- Nexus 1000V Switching Mechanisms
- Overview of the Nexus 1000 VSM
- VM Policy-based Connectivity & Mobility using Nexus 1000V
- Utilize Cisco NX-OS based End-to-End QoS Concepts & Enforcement
- Configure the Nexus 1000V System Management & Monitoring Features
- Configure VM Security Features Using the Nexus 1000V



## Implementing the Cisco Nexus 5000 Switch & 2000 (DCNX5K)

ID FL-DCNX5K Price \$3,495 or 35 CLC's Duration: 5 Days

### PREREQUISITES

- Intermediate knowledge of switching, routing and data center architectures and protocols, as well as an understanding of server virtualization techniques

### COURSE CONTENT

- Fibre Channel Protocol Implementation on the Cisco Nexus 5000
- FCoE & DCB Protocols & Applicability to a Unified Fabric Environment
- DCB/FCoE Network Design Considerations
- Configure the Nexus 5000 in Converged Network Environments

- Nexus 5000 System Hardware & Software Architecture
- Nexus 5000 Software Features & Licensing
- Configure Server Connectivity to the FCoE/DCB Network Using Converged Network Adapters
- Nexus 5000 High-Availability Features
- Configure the Nexus 5000 Management & Monitoring Features
- Nexus 2000 Hardware Architecture & Operational Features
- Relationship Between the Nexus 5000 & 2000 Product Families
- Configure Advanced Features Including Congestion Avoidance, Traffic Management, Static & Dynamic Pinning
- Utilize the Fabric & Device Manager Products to Perform Discovery, Configuration, Management & Troubleshooting

## Implementing the Cisco Nexus 7000 Switch (IDCNX7K)

ID FL-DCNX7K Price \$3,495 or 35 CLC's Duration: 5 Days

### PREREQUISITES

- Intermediate knowledge of switching, routing and storage architectures and protocols, as well as an understanding of server virtualization techniques

### COURSE CONTENT

- Understanding the Cisco Nexus 7000 Series Switches
- Introducing the Virtual Device Contexts in the Cisco Nexus 7000
- Managing the Cisco Nexus 7000
- Cisco Nexus 7000 & Cisco NX-OS Layer 2 Protocols and Features
- Cisco Nexus 7000 & Cisco NX-OS Layer 3 Protocols and Features
- Cisco Nexus 7000 and Cisco NX-OS Quality of Service
- Cisco Nexus 7000 and Cisco NX-OS Security
- Troubleshooting



## Implementing the Application Control Engine Service Module (ACESM)

ID CI-ACESM Price \$2,995 or 30 CLC's Duration 4 Days

### PREREQUISITES

- Basic understanding of the following topics: The TCP/IP protocol, the HTTP and SSL protocols, N-tier application architecture, Server load-balancing

### COURSE CONTENT

- Introducing the Cisco ACE Module
- Deploying the Cisco ACE Module
- Understanding Modular Policy CLI
- Managing the Cisco ACE Module
- Understanding Security Features
- Configuring Layer 4 Load Balancing
- Configuring Health Monitoring
- Configuring Layer 7 Protocol Processing
- Processing Secure Connections
- Understanding High Availability
- Integrating Multiple Features

## Implementing the Cisco ACE Appliance (ACEAP)

ID CI-ACEAP Price \$2,995 or 30 CLC's Duration 4 Days

### PREREQUISITES

- Basic understanding of the following topics: The TCP/IP protocol, the HTTP and SSL protocols, N-tier application architecture, Server load-balancing

### COURSE CONTENT

- Implementing the Cisco Application Control Engine Appliance
- Introducing the Cisco ACE 4710 Appliance
- Deploying Cisco ACE
- Modular Policy CLI
- Managing the Cisco ACE Appliance
- Security Features
- Load Balancing
- Health Monitoring
- Layer 7 Protocol Processing
- Processing Secure Connections
- Deploying Application Acceleration and Optimization
- High Availability



## Designing an Enterprise Application Infrastructure (ACEDES)

ID CI-ACEDES Price \$3,495 or 35 CLC's Duration 4 Days

### PREREQUISITES

- Basic understanding of the following topics: The TCP/IP protocol, the HTTP and SSL protocols, N-tier application architecture, Server load-balancing

### COURSE CONTENT

- Introducing ACE
- Deploying ACE
- Modular Policy Configuration
- Layer 4 / 7 Load Balancing
- Layer 7 Protocol Processing
- Processing Secure Connections
- Security Features
- High Availability
- Integrating Multiple Features



## Implementing Cisco Storage Networking Solutions (ICSNS)

ID CI-ICSNS Price \$3,395 or 34 CLC's Duration 5 Days

### PREREQUISITES

- Basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel

### COURSE CONTENT

- MDS 9000 Platform Overview
- System Installation and Initial Configuration
- Building Virtual SANs
- Implementing FCIP
- Troubleshooting Tools and Scenarios



## ACE Workshop (ACEWS)

ID CI-ACEAP Price: \$ 2995 or 30 CLC's Duration 4 Days

### PREREQUISITES

- Basic understanding of the following topics: The TCP/IP protocol, the HTTP and SSL protocols, N-tier application architecture, Server load-balancing .

### COURSE CONTENT

- Describe IP application delivery with the ACE module
- Describe the structure and function of the Modular Policy CLI statements used to configure ACE features
- Describe the capabilities the ACE module used to load balance IP-based applications
- Identify the layer-7 processing options used to provide advanced application networking
- Create new contexts and resource classes
- Create class maps and serverfarms

- Configure an ACE context load balance traffic flows
- Configure an ACE context to monitor real servers
- Implement fixups and inspection
- Describe the ACE features that provide IP application security
- Implement SSL termination
- Configure network address translations
- Describe the high availability features of the ACE module
- Configure an ACE context to perform a variety of functions in an integrated environment
- Troubleshoot common SLB configuration errors



## Implementing Cisco Advanced Storage Networking Solutions (IASNS)

ID CI-IASNS Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Implementing Cisco Storage Networking Solutions (ICSNS)

### COURSE CONTENT

- Building Enterprise SAN Fabrics
- Implementing Management and Security Services
- Advanced Troubleshooting
- Implementing iSCSI



## Designing Cisco Storage Networking Solutions (DCSNS)

ID CI-DCSNS Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Basic understanding of data storage hardware components and protocols, including SCSI and Fibre Channel



### COURSE CONTENT

- MDS 9000 Platform Overview
- Designing SAN Fabrics
- Securing the SAN
- Designing SAN Extension Solutions



# Cisco Network Design Training



## Designing for Cisco Internetwork Solutions (DESGN)

ID CI-DESGN Price \$2,595 or 26 CLC's Duration 5 Days

### PREREQUISITES

- CCNA certification or equivalent knowledge
- Implementing Cisco IP Switched Networks (SWITCH) course
- Practical experience with deploying and operating Cisco networks

### COURSE CONTENT

- Network Design Methodology Overview
  - Understanding the Network Architectures for the Enterprise
  - Identifying Design Requirements
  - Characterizing the Existing Network and Sites
  - Using the Top-Down Approach to Network Design
  - Case Study: ACMC Hospital Network Upgrade
- Structuring and Modularizing the Network
  - Designing the Network Hierarchy
  - Using a Modular Approach in Network Design
  - Supporting Services on Borderless Networks
  - Identifying Network Management Protocols and Features
  - Case Study: ACMC Hospital Network Structure and Modularity
- Designing Basic Campus and Data Center Networks
  - Describing Campus Design Considerations
  - Designing the Enterprise Campus Infrastructure Module
  - Describing Enterprise Data Center Considerations
  - Case Study: ACMC Hospital Network Campus Design
- Designing Remote Connectivity
  - Identifying WAN Technology Considerations
  - Designing the Enterprise WAN
  - Designing the Enterprise Branch
  - Case Study: ACMC Hospital Network WAN Design

- Designing IP Addressing and Selecting Routing Protocols
  - Designing IPv4 Addressing
  - Designing IPv6 Addressing
  - Reviewing Enterprise Routing Protocols
  - Designing a Routing Protocol Deployment
  - Case Study: ACMC Hospital Network IP Addressing and Routing Protocol Design
- Evaluating Security Solutions for the Network
  - Defining Network Security
  - Understanding the Cisco SAFE Approach
  - Selecting Network Security Solutions
  - Case Study: ACMC Hospital Network Security Design
- Identifying Voice Networking Considerations
  - Integrating Voice Architectures
  - Identifying the Requirements of Voice and Video Technologies
  - Case Study: ACMC Hospital Network Voice Transport Considerations
- Identifying Design Considerations for Basic Wireless Networks
  - Introducing the Cisco Unified Wireless Network
  - Wireless Network Controller Technology
  - Designing Wireless Networks using Controllers
  - Case Study: ACMC Hospital Network Unified Wireless Networking Considerations
  - Case Study: Connecting More Hospitals to the ACMC Hospital Network
  - Wrap-up



## Designing Cisco Network Service Architectures (ARCH)

ID CI-ARCH Price \$2,595 or 26 CLC's Duration 5 Days

### PREREQUISITES

- CCNA and CCDA knowledge
- Implementing Cisco IP Routing (ROUTE) and Implementing Cisco IP Switched Networks (SWITCH) courses

### COURSE CONTENT

- Network Architectures for the Enterprise
- Enterprise Campus Network Design
- Advanced Addressing and Routing Design

- Advanced WAN Services Design Considerations
- Enterprise Data Center Design
- E-Commerce Module Design
- Storage Area Network Design Considerations
- Security Services Design
- IPsec and SSL VPN Design
- IP Multicast Design
- Network Management Capabilities with Cisco IOS Software

## Implementing Cisco QoS (QOS)

ID CI-QOS Price \$3295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) course

### COURSE CONTENT

- Introduction to QoS
- The Building Blocks of QoS
  - Identifying Models for Implementing QoS
  - Understanding the Integrated Services Model
  - Understanding the Differentiated Services Model
  - Identifying QoS Mechanisms
- Introduction to MQC and Cisco AutoQoS
  - Introducing Modular QoS CLI
  - Introducing Cisco AutoQoS VoIP
  - Introducing Cisco AutoQoS for the Enterprise
- Classification and Marking
  - Understanding Classification and Marking
  - Using MQC for Classification
  - Using MQC for Class-Based Marking
  - Using NBAR for Classification
  - Configuring QoS Preclassify
  - Configuring QoS Policy Propagation via BGP
  - Configuring LAN Classification and Marking
  - Understanding QoS in the Life of a Packet
- Congestion Management
  - Introducing Queuing
  - Understanding Queuing Implementations
  - Configuring FIFO and WFQ
  - Configuring CBWFQ and LLQ
  - Configuring LAN Congestion Management
- Congestion Avoidance
  - Introducing Congestion Avoidance
  - Introducing RED
  - Configuring Class-Based Weighted RED
  - Configuring Explicit Congestion Notification
- Traffic Policing and Shaping
  - Understanding Traffic Policing and Shaping
  - Configuring Class-Based Policing
  - Configuring Class-Based Shaping
  - Configuring Class-Based Shaping on Frame Relay Interfaces
  - Frame Relay Voice-Adaptive Traffic Shaping & Fragmentation
- Link Efficiency Mechanisms
  - Understanding Link Efficiency Mechanisms
  - Configuring Class-Based Header Compression
  - Configuring Link Fragmentation and Interleaving
- QoS Best Practices
  - Understanding Traffic Classification Best Practices
  - Deploying End-to-End QoS
  - Providing QoS for Security

## Implementing Cisco MPLS (MPLS)

ID CI-MPLS Price \$2895 or 29 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2), Implementing Cisco IP Routing (ROUTE) and Configuring BGP on Cisco Routers (BGP) courses
- Implementing Cisco QoS (QOS) course recommended

### COURSE CONTENT

- MPLS Features
- Label Assignment and Distribution
- Frame-Mode MPLS Implementation on Cisco IOS Platforms
- MPLS VPN Technology
- MPLS VPN Implementation
- Complex MPLS VPNs
- Internet Access and MPLS VPNs
- MPLS TE Overview

Equipment  
Cisco 7200,  
3600, 2800

## Implementing Cisco MPLS Traffic Engineering & Other Features (MPLST)

ID CI-MPLST Price 2.990,00 EUR / 1.995,00 GBP (excl. VAT) Duration 5 Days

### PREREQUISITES

- Configuring BGP on Cisco Routers (BGP), Implementing Cisco QoS (QOS) and Implementing Cisco MPLS (MPLS) courses

### COURSE CONTENT

- MPLS VPN Review
- MPLS Label Assignment & Distribution Frame-Mode/Cell-Mode
- Carrier Supporting Carrier (CsC)
- MPLS Traffic Engineering Technology
- Configuring MPLS Traffic Engineering
- MPLS Quality of Service
- Any Transport over MPLS (AToM)
- MPLS IPv6 support

## Configuring BGP on Cisco Routers (BGP)

ID CI-BGP Price \$2,895 or 29 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) and Implementing Cisco IP Routing (ROUTE) courses

### COURSE CONTENT

- BGP Overview
- BGP Transit Autonomous Systems
- Route Selection Using Policy Controls
- Route Selection Using Attributes
- Customer to Provider Connectivity with BGP
- Scaling Service Provider Networks
- Optimizing BGP Scalability



## Implementing Cisco Multicast (MCAST)

ID CI-MCAST Price \$3,695 or 37 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) and Implementing Cisco IP Routing (ROUTE) courses

### COURSE CONTENT

- IP Multicast Technology
- PIM Dense Mode Protocol, Configuration, Monitoring and Troubleshooting
- Sparse Mode Multicast Protocols, Configuration, Monitoring and Troubleshooting
- Reliable IP Multicasting, Configuration, Monitoring and Troubleshooting
- Implementation, Monitoring and Troubleshooting of IP Multicast on Data Link Layer
- Simple Intradomain Deployment of IP Multicasts



# IPv6 Fundamentals, Design & Deployment (IP6FD)

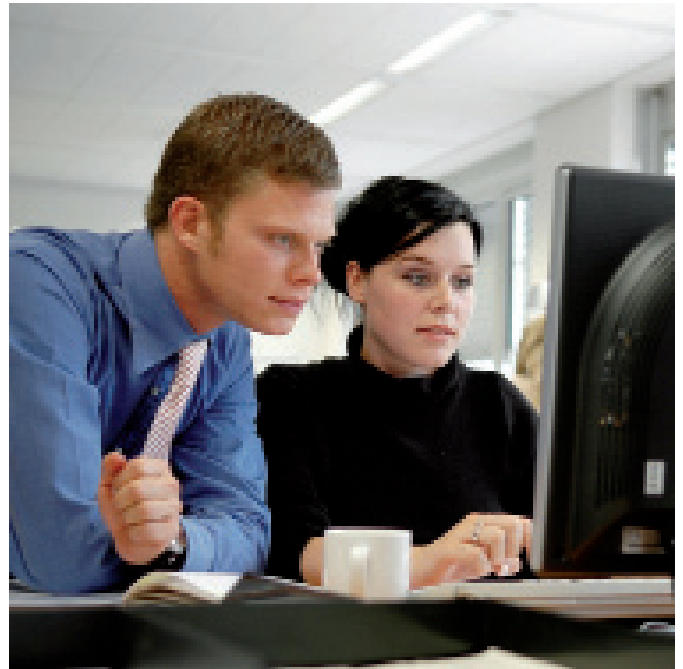
ID CI-IP6FD Price \$3,295 or 33 CLC's Duration 5 Days

## PREREQUISITES

- Routing, switching and access product knowledge and skills
- Working knowledge of routing protocols

## COURSE CONTENT

- Introduction to IPv6
- IPv6 Operation
- Advanced IPv6 Topics
- Using IPv6 Services
- Describing IPv6-Enabled Routing Protocols
- IPv6 Transition Mechanisms
- Discussing Security Issues in IPv6
- Mobile IP Model
- Deploying IPv6



# Cisco IronPort Security Training

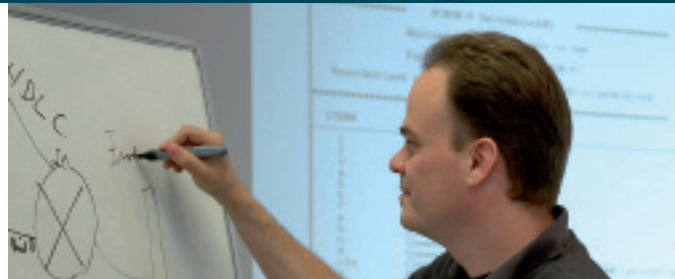


## Cisco IronPort Web Security Channel Partner Training (WSCPT)

ID IP-WSCPT Price \$1,550 or 16 CLC's Duration 2 Days

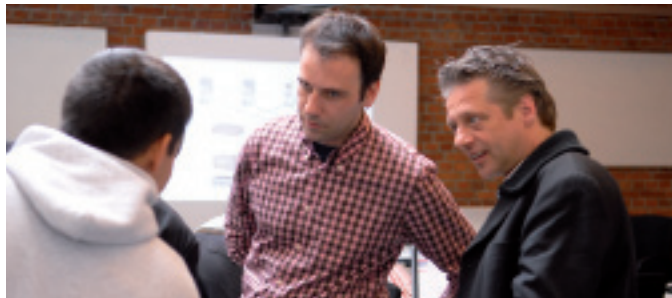
### PREREQUISITES

- Knowledge of IP routing, and TCP/IP services, including DNS, SSH, FTP, SNMP, HTTP and HTTPS
- High level understanding of web proxy servers
- High level understanding of web security concepts and technologies
- Some familiarity with the Cisco Adaptive Security Appliance (ASA) is desirable



### COURSE CONTENT

- Course & Product Overview
- Performing an Evaluation
- Utilizing Authentication
- Configuring Policies
- Enforcing Acceptable Use
- Defending Against Malware
- Data Security
- Deploying the S-Series
- Administrative Tasks
- Troubleshooting





# Cisco Security Training

## Implementing Cisco IOS Network Security (IINS)

ID CI-IINS Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 1 (ICND1) course

### COURSE CONTENT

- Introduction to Network Security Principles
- Perimeter Security

- Network Security Using Cisco IOS Firewalls
- Site-to-Site VPNs
- Network Security Using Cisco IOS IPS
- LAN, SAN, Voice, and Endpoint Security Overview

## Securing Networks with Cisco Routers & Switches (SECURE)

ID CI-SECURE Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Cisco Certified Network Associate (CCNA) certification or equivalent knowledge
- Cisco Certified Network Associate Security (CCNA Security) certification or equivalent knowledge
- Working knowledge of the Microsoft Windows operating system

### COURSE CONTENT

- Deploying Cisco IOS Software Network Foundation Protection
- Deploying Cisco IOS Software Threat Control and Containment
- Deploying Cisco IOS Software Site-to-Site Transmission Security
- Deploying Secure Remote Access with Cisco IOS Software



## Deploying Cisco ASA Firewall Features (FIREWALL)

ID CI-FIREWALL Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Cisco Certified Network Associate (CCNA) certification or equivalent knowledge
- Cisco Certified Network Associate Security (CCNA Security) certification or equivalent knowledge
- Working knowledge of the Microsoft Windows operating system

### COURSE CONTENT

- Introducing the Cisco ASA Adaptive Security Appliance

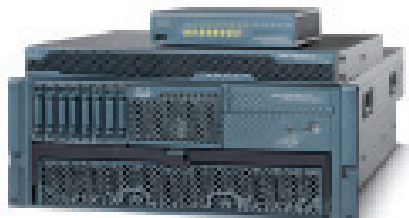
- Implementing Basic Connectivity and Device Management
- Deploying Cisco ASA Adaptive Security Appliance Access Control Features
- Deploying Cisco ASA Adaptive Security Appliance Network Integration Features
- Deploying Cisco ASA Adaptive Security Appliance Virtualization and High Availability Features
- Integrating Cisco ASA Adaptive Security Appliance Security Service Modules

## Deploying Cisco ASA VPN Solutions (VPN)

ID CI-VPN Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Cisco Certified Network Associate (CCNA) certification or equivalent knowledge
- Cisco Certified Network Associate Security (CCNA Security) certification or equivalent knowledge
- Working knowledge of the Microsoft Windows operating system



### COURSE CONTENT

- Evaluating the Cisco ASA Adaptive Security Appliance VPN Subsystem
- Deploying Cisco ASA Adaptive Security Appliance IPsec VPN Solutions
- Deploying Cisco ASA Adaptive Security Appliance AnyConnect Remote Access VPN Solutions
- Deploying Cisco ASA Adaptive Security Appliance Clientless Remote Access VPN Solutions
- Deploying Advanced Cisco ASA Adaptive Security Appliance VPN Solutions

## Implementing Cisco Network Admission Control (NAC)

ID CI-NAC Price \$2,995 or 26 CLC's Duration 3 Days

### PREREQUISITES

- Certification as a CCSP or the equivalent knowledge

### COURSE CONTENT

- Implementing Cisco NAC
- Understanding Cisco NAC
- Configuring Cisco Secure ACS for Cisco NAC

- Configuring Cisco Routers for Cisco NAC
- Configuring Cisco Switches for Cisco NAC
- Configuring Cisco NAC Agents
- Configuring Wireless Access Points for Cisco NAC



## Implementing Cisco Intrusion Prevention System v7.0 (IPS)

ID CI-IPS Price \$3,195 or 32 CLC's Duration 5 Days

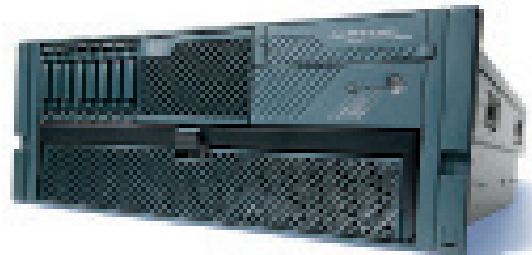
### PREREQUISITES

- Cisco Certified Network Associate (CCNA) certification or equivalent knowledge
- Cisco Certified Network Associate Security (CCNA Security) certification or equivalent knowledge
- Working knowledge of the Microsoft Windows operating system



### COURSE CONTENT

- Introduction to Intrusion Prevention and Detection, Cisco IPS Software, and Supporting Devices
- Installing and Maintaining Cisco IPS Sensors
- Applying Cisco IPS Security Policies
- Adapting Traffic Analysis and Response to the Environment
- Managing and Analyzing Events
- Deploying Virtualization, High Availability, and High Performance Solutions
- Configuring and Maintaining Specific Cisco IPS Hardware



## Implementing Cisco NAC Appliance (CANAC)

ID CI-CANAC Price \$2,995 or 26 CLC's Duration 3 Days

### PREREQUISITES

- Implementing Cisco IP Routing (ROUTE), Implementing Cisco IP Switching (SWITCH) and Securing Networks with Cisco Routers & Switches (SECURE) courses

### COURSE CONTENT

- Cisco NAC Endpoint Security Solutions
- Cisco NAC Appliance Common Elements Configuration
- Cisco NAC Appliance Implementation
- Cisco NAC Appliance Implementation Options
- Cisco NAC Appliance Monitoring and Administration



## Security Solutions for System Engineers (SSSE)

ID CI-SSSE Price \$2,595 or 26 CLC's Duration 5 Days

### PREREQUISITES

- CCDA certification

### COURSE CONTENT

- Advanced Security Introduction
- Cisco Firewalling
- Virtual Private Network
- Intrusion Detection / Prevention Systems
- Network Admission Control
- Security Management

## RADIUS & TACACS+ with the Cisco Access Control Server 5.2 (ACS)

ID FL-ACS Price \$2,250 or 23 CLC's Duration 3 Days

### PREREQUISITES

- CCNA certification or equivalent knowledge

### COURSE CONTENT

- Introduction: What is RADIUS: TLV, RADIUS packets, differentiation to TACACS+; The portfolio: ACS versions, licenses, ACS View
- Installation: Installation steps; Overview of the GUI and CLI
- Basic configuration: Setup of devices, groups and user; AAA configuration (Switch, Access Point, ASA)
- Authentication and Authorization: Behind the scenes: internal Authentication Flow; External databases: LDAP, AD, NAC Server; Proxy Authentication; Identity and Authorization Policies; Example: Command Authorization
- Operation and Maintenance: Software Upgrade; Logging, Logging Relay; Reports / Reporting / MARS; Cluster; CLI
- Scenarios: IP Phones; WLAN (AP, Controller); VPN Group / Policy Mapping; Downloadable ACLs; DOT1X

## Implementing Security Manager for Cisco Networks (SMN)

ID CI-SMN Price \$2,895 or 29 CLC's Duration 3 days

### PREREQUISITES

- Securing Networks with Cisco Routers & Switches (SECURE) and Deploying Cisco ASA Firewall Features (FIREWALL) courses

### COURSE CONTENT

- Overview of Cisco Security Manager
- Understanding and configuration process of provisioning security devices using Cisco Security Manager
- FlexConfigs feature, managing deployment and administration tasks that can be performed in Cisco Security Manager



## Introducing Cisco Voice & Unified Communications v 8 (ICOMM 8)

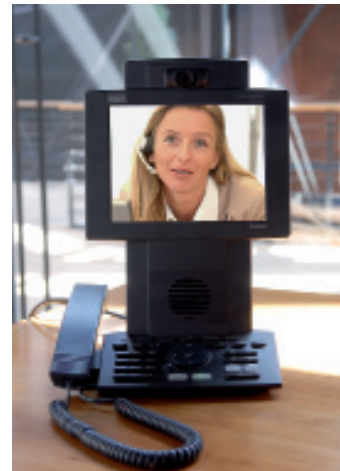
ID CI-ICOMM Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Working knowledge of converged voice and data networks
- Basic knowledge of Cisco IOS gateways
- Basic knowledge of Cisco Unified Communications Manager and Cisco Unity Connection

### COURSE CONTENT

- Overview of Cisco Unified Communications Solutions
- Overview of Administrator and End-User Interfaces
- Call Flows in Cisco Unified Communications Manager and Cisco Unified Communications Manager Express
- Endpoint and End User Administration
- Enablement of End User Telephony & Mobility Features
- Enablement of Cisco Unity Connection and Cisco Unified Presence
- Cisco Unified Communications Solutions Maintenance



## Implementing Cisco Unified Communications Voice over IP & QoS v8 (CVOICE 8)

ID CI-CVOICE Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Working knowledge of fundamental terms and concepts of computer networking including LANs, WANs, and IP switching and routing
- Ability to configure and operate Cisco IOS routers in IP environment at the CCNA level
- Basic knowledge of traditional voice, converged voice, and data networks at the CCNA Voice level

### COURSE CONTENT

- Introduction to Voice Gateways
- VoIP Call Legs
- Cisco Unified Communications Manager Express Endpoints Implementation
- Dial Plan Implementation
- Gatekeeper and Cisco Unified Border Element Implementation
- Quality of Service

## Implementing Cisco Unified Communications Manager Part 1 v8 (CIPT1)

ID CI-CIPT1 Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Working knowledge of converged voice and data networks
- Working knowledge of the MGCP, SIP, and H.323 protocols and their implementation on Cisco IOS gateways
- Ability to configure and operate Cisco routers and switches
- Ability to configure and operate Cisco Unified Communications Manager

### COURSE CONTENT

- Introduction to Cisco Unified Communications Manager
- Administering Cisco Unified Communications Manager
- Enabling Single-Site On-Net Calling
- Single-Site Off-Net Calling
- Media Resources
- Feature and Application Implementation



## Implementing Cisco Unified Communications Manager Part 2 v8 (CIPT2)

ID CI-CIPT2 Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Working knowledge of converged voice and data networks
- Working knowledge of the MGCP, SIP, and H.323 protocols and their implementation on Cisco IOS gateways
- Ability to configure and operate Cisco routers and switches
- Ability to configure and operate Cisco Unified Communications Manager in a single-site environment

### COURSE CONTENT

- Multisite Deployment Implementation
- Centralized Call-Processing Redundancy Implementation
- Bandwidth Management and CAC Implementation
- Implementation of Features and Applications for Multisite Deployments
- CCD



## Cisco Unified Presence Design & Implementation (PRSDI)



ID CI-PRSDI Price \$2,295 or 23 CLC's Duration 3 Days

### PREREQUISITES

- Working knowledge of converged voice and data networks
- Working knowledge of MGCP, SIP, and H.323
- Ability to configure Cisco Unified Communications Manager

Microsoft Integration; IBM Lotus Sametime Integration; Maintain Cisco Unified Presence; Cisco Unified Presence Serviceability; Operating System Administration; Disaster Recovery

### COURSE CONTENT

- Presence Overview; Cisco Unified Communications Manager Presence; Cisco Unified Communications Manager Express Presence; Design Cisco Unified Presence & Cisco Unified Presence Server; Design Cisco Unified Presence Security; Cisco Unified Personal Communicator; Cisco IP Phone Messenger Application; Cisco Unified Presence Interoperability; Cisco Product Integration; Third-Party Presence Server Integration; Deploy and Installing Cisco Unified Presence; Cisco Unified Communications Manager Configuration; Cisco Unified Presence Configuration;

## Administering Cisco Unified Communications Manager (ACUCM)

ID CI-ACUCM Price \$2,395 or 24 CLC's Duration 3 Days

### PREREQUISITES

- Working knowledge of Microsoft Windows 2000 / XP
- Working knowledge of Microsoft Exchange or Lotus Domino messaging environment
- Working knowledge of the features and benefits of a PBX
- Basic IP telephony concepts

### COURSE CONTENT

- Introduction to IP Telephony; Defining the CUCM Basic Configuration; Preparing for Phone Registration; Configuring a Basic Route Plan; Discovering Route Filters and Digit Manipulation; Exploring Class of Control; Explaining CAC and SRST; Understanding Media Resources; Describing Cisco Unified Communications Manager Features; Exploring Moves, Adds, Changes, and Administration

## Implementing Cisco Unified Messaging (IUM)

ID CI-IUM Price \$2,795 or 28 CLC's Duration 3 Days



### PREREQUISITES

- Solid understanding of Microsoft Windows, Microsoft Exchange, or IBM Lotus Domino
- Ability to program telephone switching equipment

### COURSE CONTENT

- Cisco Unified Communications System Overview
- Unity Connection
- Cisco Unified Communications General Setup
- Unified Communications Subscribers: A Complete Reference
- Unified Communications System Monitoring and Maintenance

## Administering Cisco Unified Messaging (AUM 8.0)

ID CI-AUM Price \$1,995 or 20 CLC's Duration 2 Days

### PREREQUISITES

- Understanding of Microsoft Windows Server and Microsoft Exchange



### COURSE CONTENT

- Cisco Unified Communications System Hardware
- Cisco Unified Communications System Software
- Cisco Unity Connection overview
- Cisco Unified Communications Integrations
- Unified Communications Networking
- Unified Communications Maintenance and Utilities

## Implementing Cisco Unity Connection (IUCv8.0)

ID CI-IUC Price \$2,795 or 28 CLC's Duration 3 Days

### PREREQUISITES

- Basic networking, voice and unified messaging skills

### COURSE CONTENT

- Cisco Unity Connection Basics
- Installation of Cisco Unity Connection
- Integrating, Troubleshooting, and Monitoring Cisco Unity

### Connection

- Migration to Cisco Unity Connection Using COBRAS
- Configuration of Cisco Unity Connection Global System Operating Parameters
- Configuration of Cisco Unity Connection User Operation

## Implementing Cisco IOS Unified Communications Part 2 (IIUC2)

ID CI-IIUC2 Price \$3,295 or 33 CLC's Duration 5 Days

### PREREQUISITES

- Introducing Cisco Voice and Unified Communications Administration (ICOMM) course



### COURSE CONTENT

- Cisco Unified Communications Manager Express Fundamentals
- Configuration of Cisco UC Manager Express Features
- Implement Media Resources Overview
- Implement Cisco Unified CallConnector and Cisco Unified CallConnector Mobility
- Cisco Unity Express Voice Mail & AutoAttendant Configuration
- Cisco Unity Express VPIM Networking and Cisco Unified Messaging Gateway
- Troubleshooting Cisco IOS Software-Based Unified Communications

# Cisco Unified Contact Center Training



## Unified Contact Center Express Advanced (UCCXA)

ID CI-UCCXA Price \$3,595 Duration 4 Days

### PREREQUISITES

- Unified Contact Center Express (UCCXD) course

### COURSE CONTENT

- Session Management
- Build Common Utilities
- Basic ACD Routing
- Common / Good Practices
- Database Setup / Steps
- Advanced ACD Routing
- Advanced ACD Callback Options
- Advanced Database Configuration
- Agent Desktop Configuration

## Implementing Unified Communications Security (IUCS)

ID CI-IUCS Price \$3,195 or 32 CLC's Duration 5 Days

### PREREQUISITES

- Implementing Cisco IOS Unified Communications (IIUC), Cisco Voice over IP (CVOICE) and Implementing Cisco Unified Communications Manager 1 (CIPT1) courses

### COURSE CONTENT

- Introduction to Unified Communications Security
- Implementing Infrastructure Security
- Securing Single Site Deployments
- Securing Multi-Site Deployments
- Securing VoIP Internetworking
- Securing Unified Communication Applications

## Unified Contact Center Express & Unified IP IVR Deployment (UCCXD)

ID CI-UCCXD Price: \$3,595 or 36 CLC's Duration 5 Days

### PREREQUISITES

- Internetworking fundamentals, Basic IP telephony fundamentals, Cisco Unified Communications Manager deployments, Cisco IP Phones and Cisco IP Communicator, Contact Center Operations, Microsoft Windows Server 2000, 2003, XP, MS SQL 2000, MSDE databases

### COURSE CONTENT

- CRS Product Overview; CRS Design and Ordering; Installation & Configuration; Script Editor; Creating Scripts and Applications; Configuring UCCX ACD; Creating Scripts for Contact Centers; Using CDA; Supervisor Remote Monitoring; Using ASR and TTS; Outbound Preview Dialing; Reporting; Troubleshooting





## IP Transfer Point (ITP)

ID CI-ITP Price:\$ 2,995 or 30 CLC's Duration 4 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices 2 (ICND2) course
- Telecommunications, basic telephony signaling, TCP/IP & IP routing
- M3UA and SUA
- High-Speed Signaling Links
- ITP MAP Proxy
- Distributed Short Message

### COURSE CONTENT

- Cisco ITP Generic Overview
- IOS Basics
- SS7 Overview
- SS7oIP Features & Functions
- Global Title Translation
- ITP Multi-Instances
- Gateway Screening
- Multi-Layer Routing
- ITP Maintenance, Monitoring and Troubleshooting

## Cisco PSTN 2200 Gateway Basics (PGWB)

ID CI-PGWB Price \$4,495 or 45 CLC's Duration 5 Days

### PREREQUISITES

- CCNA level of knowledge

### COURSE CONTENT

- Intro to PGW: Introduction to SS7 networks; Platform Overview
- Provisioning tools: XECfgParm.dat; Voice Services Provisioning Tool (VSPT and CMNM); Man Machine Language
- Provisioning SS7 side: SS7 Signaling; IP Transfer Point – Link Extender; Media Gateway; Traffic part
- Provisioning other legacy protocols: FAS and NFAS; DPNSS
- Provisioning VoIP side: Enhanced ISUP (EISUP); H.323 Signaling Interface (H.323); Session Initiation Protocol (SIP)
- Number Analysis: Dial Plan

## Cisco PSTN 2200 Gateway Advanced Troubleshooting (PGWAT)

ID CI-PGWAT Price \$4,495 or 45 CLC's Duration 5 Days

### PREREQUISITES

- Cisco PGW2200 Basic (PGWB) course

### COURSE CONTENT

- Troubleshooting PGW: MGC Toolkit; Advanced troubleshooting tools; Troubleshooting protocols in PGW system; Troubleshooting PGW components
- Interconnection Testing: MTP Level 2 testing; MTP Level 3 testing; ISUP basic call testing; End-to-end tests
- Dial Plan: Routing related Result Types; Digit Modification & Number Field Processing Result Types; Message Parameter Modification & More Info Requests; En-bloc & overlap signaling; Call & Cause Treatment Result Types; Database related Result Types
- Advanced features: M3UA and SUA over SCTP; NON-RAS mode; Lawful Intercept
- Billing and Measurement System: Installing BAMS; Provisioning BAMS; Call Detail Records (CDRs)

# Cisco Unified Customer Voice Portal Implementation (CVPI)

ID CI-CVPI Price \$3695 or 37 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1), Implementing Cisco Unified Communications Manager Part 1 (CIPT1), Implementing Cisco Unified Communications Voice over IP & QoS (CVOICE), Cisco Unified Contact Center Power Workshop (CUCCPW)

- Reporting Database and Backup
- Failover, Diagnostics, and Troubleshooting

### COURSE CONTENT

- Cisco Unified CVP Technical overview
- Cisco Unified CVP Comprehensive
- Cisco Unified ICM Enterprise Scripting to Support Unified CVP
- Media File, ECC and Micro Applications
- Cisco Unified CVP VXML Solution
- VXML Server and Studio
- Events, Log Files, and Reporting



# Cisco Digital Media Suite (DMS) Training



## Digital Media Suite (DMS)

ID CI-DMS Price \$ 2,795 or 28 CLC's Duration 3 Days

### PREREQUISITES

- An understanding of basic routing & switching including multicasting view
- Show n Share video creation and editing
- Show n Share Live events
- Integrating the MXE3500
- Digital Media Encoder configuration
- DMS Authentication Options
- SNMP Management
- Content delivery with ACNS and WAAS

### COURSE CONTENT

- System Overview
- Components of the Digital Media Suite
- Scheduled Backup and Restore

- DMM Installation and Upgrade procedures
- DMP hardware overview
- Touchscreen support
- DMP Wi-Fi configuration
- RTSP support for Digital signs & Cisco Cast
- Cisco Signs
- Using DSM
- Proof of Play
- Digital Media Designer 2.0
- DMP Local Storage
- DMS-CD
- LCD setup & configuration
- Show n Share upgrade and installation
- Show n Share Configuration
- Show n ShareViewers

## Cisco Academy of Digital Signage (ADS)

ID CI-ADS Price \$2,500 or 25 CLC's Duration 2 Days

### PREREQUISITES

- Skilled in rich media content creation and video production: Adobe Photoshop, Illustrator, Flash, Premiere, Dreamweaver

### COURSE CONTENT

- Content Creation: best practices for creating high-definition, on-demand video, network-broadcasted and CCTV live video, multimedia and Web design, flash automations, still and animated images, text, dynamic content, modular designs
- Content Management: content control, organisation, playlisting, scheduling, digital signage management, content rights and administration
- Content Distribution: best practices for content-delivery

networking, store-and-forward, IP multicasting, content assessment, network & system readiness assessment, streaming video

## Implementing Advanced TelePresence Video Solutions Part 1 (PAIATVS1)

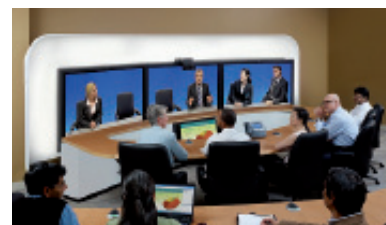
ID CI-PAIATVS1 Price 3.995 or 40 CLC's Duration 5 Days

### PREREQUISITES

- Completed and passed the PATVSEE and PATVSEA exams

### COURSE CONTENT

- Endpoints: C Series Operation; Documentation; Installation; Configuration; Maintenance; Troubleshooting
- Call Control: Registration Protocols and VCS Installation; VCS Basic Configuration; Backup, Restore and Upgrade; Troubleshooting
- MCU Setup; Configuration; Operations; Customisation; Global Conference Settings; Upgrades and Backups; Troubleshooting
- Management: Operation; Installation; SQL; Zones; Permissions; Troubleshooting



## Implementing Advanced TelePresence Video Solutions Part 2 (PAIATVS2)

ID CI-PAIATVS2 Price 3.995 or 40 CLC's Duration 5 Days

### PREREQUISITES

- Completed and passed the PATVSEE and PATVSEA exams
- Implementing Advanced TelePresence Video Solutions Part 1 (PAIATVS1)

### COURSE CONTENT

- Cisco TelePresence Server and the TelePresence Interoperability Protocol: Cisco TelePresence MSE8000; Cisco TelePresence Server; TIP and Cisco Interoperation Support
- TelePresence Content Server: Recording Features and Functions; Configuration and Operation; Extending TCS Functionality
- Call Control: Registration; Security; Subzones; Zones; Backups and Upgrades; Traversal Zones; Call Policy; FindMe; Searches;

- TAC Files; Certificates; Presence; LDAP Authentication; Calls to Unregistered Endpoints; Regular Expressions; ENUM and DNS Dialing; Conference Factory; Redundancy
- Provisioning: Documentation; System Components; Configuration; Provisioning User Accounts; Troubleshooting

## Implementing Express TelePresence Video Solutions (PAIETVS)

ID CI-PAIETVS Price 1595 or 16 CLC's Duration 2 Days

### PREREQUISITES

- Completed and passed the PATVSEE exam
- Completed the ELT component of the PAIETVS course

### COURSE CONTENT

- Endpoints: Cable up the C40 Codec; Configure the C40 Codec; Register the C40 Codec for SIP; Test SIP calls; Register the C40 Codec for H.323 & Interworking; Test H.323 & Interworking calls

- Call Control: Configuration of IP settings; SIP domain and SIP configuration settings; Configuration of H.323 and Interworking settings; C40 Inbuilt multipoint and presentation capabilities; Configuration backup
- MCU: MCU Setup; MCU Operation; MCU Backup
- Management: Booking; Monitoring; Managing Systems; Phone Books



# Cisco Unified MeetingPlace Training

## Designing Cisco Unified MeetingPlace Solutions (DMPS)

ID CI-DMPS Price \$2,095 or 21 CLC's Duration 3 Days

### PREREQUISITES

- Self-paced Cisco MeetingPlace Product Overview course
- Hands-on experience with MeetingPlace from having attended the following on-line courses: Cisco MeetingPlace Basic User (90-minute Web-based) and Cisco MeetingPlace System Administrator (90-minute, web-based)

### COURSE CONTENT

- Understanding MeetingPlace Architecture and Design: Demonstrating MeetingPlace Product Features; Planning MeetingPlace Media Server Deployment; Planning Media Convergence Server Deployment; Planning MeetingPlace Control Server Deployment; Planning MeetingPlace Web Integration; Planning MeetingPlace Optional Integrations
- Evaluating Customer Environment and Conferencing Requirements: Evaluating the Customer Network Environment;

Evaluate End-User Requirements; Evaluating Customer Infrastructure and Telephony Environment; Evaluating Customer Database Requirements

- Designing a Customer MeetingPlace Solution: Determining Customer MeetingPlace System Requirements; Evaluating the Customer Impact of MeetingPlace Deployment; Selecting MeetingPlace Product Bundles for Customer Requirements; Designing a MeetingPlace Conferencing Solution; Designing a Highly Available Conferencing Solution; Documenting the MeetingPlace Design

## Implementing Cisco Unified MeetingPlace Solutions (IMPS)

ID CI-IMPS Price \$3495 or 35 CLC's Duration 5 Days

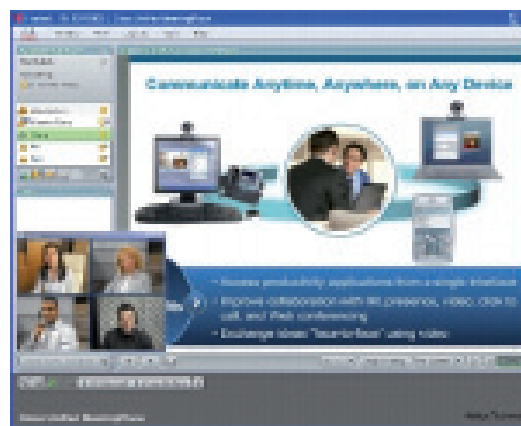
### PREREQUISITES

- Working knowledge of converged voice and data networks
- Working knowledge of SIP, MGCP, and H.323 protocols and their implementation on Cisco IOS gateways
- Working knowledge of video basics
- Implementing Cisco Unified Communication Manager Part 1 (CIPT1) course

### COURSE CONTENT

- Understanding MeetingPlace Architecture and Hardware: Understanding the MeetingPlace Solution; Gathering Customer Information; Implementing MeetingPlace Convergence Servers
- Implementing and Upgrading a MeetingPlace Media Server: Understanding Media Server Components and Operations; Installing and Configuring a Media Server; Upgrading Media Server Hardware and Software; Troubleshooting a Media Server
- Implementing a MeetingPlace Control Server: Installing and configuring a Control Server; Configuring a SIP Gateway; Configuring Outlook and SMTP Integration; Configuring LDAP Integration; Configuring Video Integration and Administration; Implementing Localization
- Implementing MeetingPlace Web Conferencing: Understanding MeetingPlace Web Conferencing; Implementing MeetingPlace Web Conferencing; Using the MeetingPlace Web User Interface; Providing External Access to MeetingPlace Web Conferencing; Upgrading or Uninstalling a Functioning MeetingPlace Web Conferencing Installation

- MeetingPlace Integrations, Administration, and Maintenance: Integrating Lotus Notes, Jabber and MOC; Configuring PhoneView; Using MeetingManager; Backing-Up the Control Server Database; Implementing a Highly Available Conferencing Solution; Maintaining and Troubleshooting a Conferencing Solution; Locating Documentation and Training Resources



## Implementing Cisco Unified Wireless Networking Essentials (IUWNE)

ID CI-IUWNE Price \$3,295 or 33 CLC's Duration 5 Days

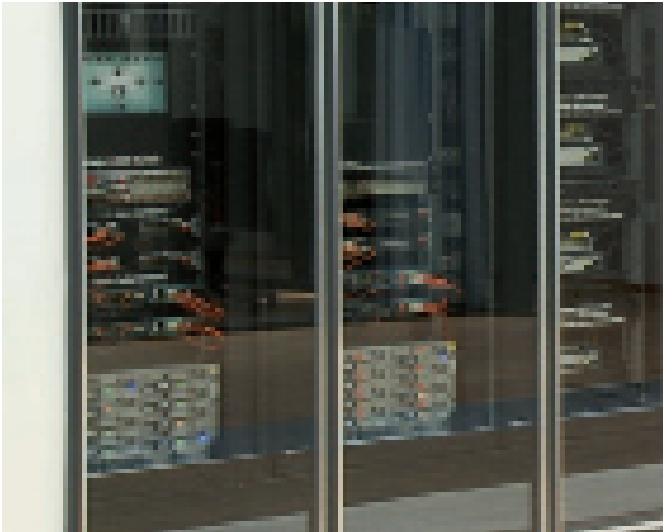
### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1) and Interconnecting Cisco Network Devices Part 2 (ICND2) courses



### COURSE CONTENT

- Wireless Fundamentals
- Basic WLAN Installation
- Wireless Clients
- WLAN Security
- WCS Administration
- WLAN Maintenance and Troubleshooting



## Implementing Advanced Cisco Unified Wireless Security (IAUWS)

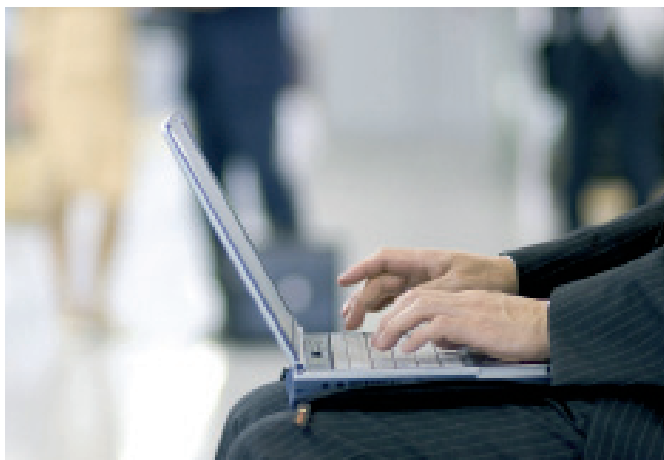
ID CI-IAUWS Price \$3095 or 31 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1), Interconnecting Cisco Network Devices Part 2 (ICND2) and Implementing Cisco Unified Wireless Networking Essentials (IUWNE) courses

### COURSE CONTENT

- Organisational and Regulatory Security Policies
- Secure Client Devices
- Design and Implement Guest Access Services
- Design and Integrate Wireless Network with Cisco NAC Appliance
- Implement Secure Wireless Connectivity Services
- Internal and Integrated External Security Mitigations



## Implementing Cisco Unified Wireless Mobility Services (IUWMS)

ID CI-IUWMS Price \$3095 or 31 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1), Interconnecting Cisco Network Devices Part 2 (ICND2) and Implementing Cisco Unified Wireless Networking Essentials (IUWNE) courses
- Basic knowledge of the following: Cisco Lifecycle Services, Wireless standards (IEEE), Wireless regulator environment, Wireless certification organisation (Wi-Fi Alliance)

### COURSE CONTENT

- Design WLAN Infrastructure for Mobility
- Implement and Manage Advanced Services with WCS and WCS Navigator
- Design the Wireless Network for Location

- Cisco Location Based Services Implementation
- Implement and Manage an Enterprise Mesh Network
- Describe Outdoor Wireless



## Conducting Cisco Unified Wireless Site Survey (CUWSS)

ID CI-CUWSS Price \$3095 or 31 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1), Interconnecting Cisco Network Devices Part 2 (ICND2) and Implementing Cisco Unified Wireless Networking Essentials (IUWNE) courses
- Basic knowledge of the following: Cisco Lifecycle Services, Wireless standards (IEEE), Wireless regulator environment (FCC, ETSI, and so on), Wireless certification organisation (Wi-Fi Alliance)

### COURSE CONTENT

- Prepare for the Site Survey
- Plan for the Site Survey
- Conduct the Site Survey
- AP and Controller Density and Licensing
- Assessing the Deployment



## Implementing Cisco Unified Wireless Voice Networks (IUWVN)

ID CI-IUWVN Price \$3095 or 31 CLC's Duration 5 Days

### PREREQUISITES

- Interconnecting Cisco Network Devices Part 1 (ICND1), Interconnecting Cisco Network Devices Part 2 (ICND2) and Implementing Cisco Unified Wireless Networking Essentials (IUWNE) courses
- Basic knowledge of the following: Cisco Lifecycle Services, Wireless standards (IEEE), Wireless regulator environment (FCC, ETSI, and so on), Wireless certification organisation (Wi-Fi Alliance)

### COURSE CONTENT

- Implement QoS for Wireless Applications
- Voice over Wireless Architecture
- Implement VoWLAN
- Implement Multicast over Wireless
- Prepare the Wireless Network for Video and High-Bandwidth Applications



## Cisco Wireless LAN Advanced Topics (CWLAT)

ID CI-CWLAT Price :\$2795 or 28 CLC's Duration 4 Days

### PREREQUISITES

- Cisco Wireless LAN Fundamentals (CWLF) course

### COURSE CONTENT

- Describing the Cisco Unified Wireless Network
- Describing Controller-Based Architecture
- Implementing the WLAN with Cisco WCS
- Installing the Cisco Wireless Control System
- Configuring the Cisco Wireless Control System
- Managing the WLAN using the Cisco WLAN Controller
- Managing the Cisco Unified Wireless Network using Cisco WCS
- Managing the Cisco Unified Wireless Network using Controllers

- Troubleshooting the WLAN Controller-Based Wireless Network
- Describing and Implementing the VoWLAN Infrastructure
- Introducing the Cisco Wireless Location Appliance
- Deploying the Mesh Network
- Describing WLAN Security Design Concepts
- Securing the WLAN
- Configuring Cisco Secure ACS

## Cisco Wireless LAN Fundamentals (CWLF)

ID CI-CWLF Price:\$ 2,795 or 28 CLC's Duration 4 Days

### PREREQUISITES

- Knowledge of fundamental networking components and terminology, knowledge of the OSI reference model
- Knowledge of basic LAN components and functions

### COURSE CONTENT

- Wireless Technology
- Cisco WLAN Products
- Cisco Wireless Clients and Supplicants
- Standalone Access Point Administration
- Wireless Bridges

- Cisco Unified WLAN Administration
- Site Survey Preparation and Techniques
- Tools and Utilities



## Cisco CCIE Wireless Written Power Workshop (CCIEWW)

ID FL-CCIEWW Price:\$4395 or 44 CLC's Duration 5 Days

### COURSE CONTENT

This intensive power workshop focusing on using Cisco Unified Wireless solution is designed to give students a firm knowledge of the theoretical background needed to successfully pass the CCIE Wireless Written exam.



## Cisco CCIE Wireless Lab Power Workshop (CCIEWL)

ID FL-CCIEWL Price: \$4,395 or 44 CLC's Duration 5 Days

90%  
Practical  
Lab Based!

### COURSE CONTENT

This intensive power workshop is heavily focused on lab training and practice. Each student works on an independent rack offering all the features that may be to be configured in the real lab exam.



## Cisco Unified Wireless Networking (CUWN)

ID CI-CUWN Price:\$3,295 or 33 CLC's Duration 4 Days

### PREREQUISITES

- Basic networking principles, TCP/IP, bridging, routing protocol, and WLAN operation
- CCNA certification



### COURSE CONTENT

- Cisco Unified Wireless Network Introduction
- Cisco Unified Wireless Network Hardware Installation
- Cisco Unified Wireless Network Administration
- WLAN Maintenance and Troubleshooting
- WLAN Security
- Cisco Wireless Control System
- Cisco Location Tracking

## Cisco Wireless Mesh Networks (CWMN)

ID CI-CWMN Price \$2,295 or 23 CLC's Duration 3 Days

### PREREQUISITES

- Cisco Wireless LAN Fundamentals (CWLF) and Cisco Wireless LAN Advanced Topics (CWLAT) courses

### COURSE CONTENT

- Configuring a Wireless Controller
- Describing Cisco Aironet 1500 Series Mesh Product
- Designing Wireless Mesh Requirements
- Install and Configure Mesh Access Points
- Verification and Troubleshooting



## Designing Cisco RF Networks (DRFN)

ID CI-DRFN Price:\$2,495 or 25 CLC's Duration 3 Days

### PREREQUISITES

- Basic understanding of RF engineering tools

### COURSE CONTENT

- Principles of Wireless Mesh Networks
- Basic RF for Wi-Fi Mesh Design
- Wi-Fi Mesh Network Design
- Propagation Modeling of Mesh Networks

## Cisco Wireless Mesh & RF Design Bundle (WMRFPW)

ID FL-WMRFPW Price:\$3,695 or 37 CLC's (excl. VAT) Duration 5 Days

### PREREQUISITES

- Basic understanding of PC hardware configurations and networking business drivers
- Basic understanding of 802.11 standards and Wi-Fi systems

### COURSE CONTENT

The Wireless Mesh & RF Design Power Workshop comprises the following courses:

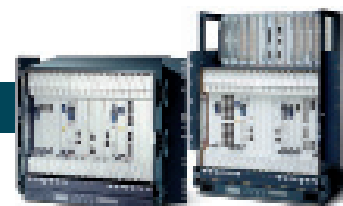
- Cisco Wireless Mesh Networking (CWMN)
- Cisco RF Design (CRFD)

## Optical Technology Fundamentals (OTF)

ID FL-OTF Price\$ 2295 or 23 CLC's Duration 3 Days

### COURSE CONTENT

- Optical Technology Fundamentals; Optical Fiber Types; DWDM Components; DWDM Design; Fiber Interconnection; Light Emitters; Light Detectors; SONET/SDH Rates & Basic Terminology; SONET/SDH Framing; SONET/SDH Topologies & Protection; Synchronization & Timing; SONET/SDH Services; Optical Fiber Cleaning; Fiber & Laser Safety



## Cisco Transport Manager Operation & Maintenance (OCTMO)

ID CI-OCTMO Price\$ 2295 or 23 CLC's Duration 2 Days

### COURSE CONTENT

- CTM Product Overview & Introduction; CTM Graphical User Interface (GUI); Adding NEs & Creating Groups in CTM; CTM Security Management; CTM Fault Management; CTM Performance Monitoring; CTM Configuration Management; CTM Configuration Management using Non-Native GUI; Inventory Management in CTM; Northbound Interfaces (CTM GateWay); CTM Administration Tasks; Troubleshooting of CTM

## Cisco ONS 15454 MSTP Basic Turn Up, Test, Provisioning & Operation (MSTPBASIC)

ID CI-MSTPBASIC Price \$3,500 or 35 CLC's Duration 4 Days

## Cisco ONS 15454 MSTP Implementing Data over DWDM (MSTPDATA)

ID CI-MSTPDATA Price \$3,500 or 35 CLC's Duration 4 Days

## Cisco ONS 15454 MSTP Advanced Provisioning & Operation (MSTPADVANCED)

ID CI-MSTPADVANCED Price \$3,500 or 35 CLC's Duration 4 Days

## Cisco Sales Essentials (CSE)

ID CI-CSE Price\$1,595 Duration 2 or 3 Days

### COURSE CONTENT

- Cisco strengths and why it is beneficial to partner with them
- Cisco Network Systems solutions
- Cisco Mobility solutions
- Cisco Unified Communications solutions
- Cisco Data Center solutions
- Cisco Security solutions
- How to use partner support & technical services to increase revenue

# Cisco Advanced Services Training



The primary mission of Advanced Services Education (ASE) is to help Cisco customers optimize their network investment, and speed adoption and migration of advanced technologies, by providing customer-oriented skills development solutions. We have partnered with Cisco Advanced Services to offer their broad range of courses on a worldwide basis. For further information please contact your nearest Fast Lane office. Details can be found on the back page.

## DATA CENTER

- Building Enterprise Data Center Architectures (EDCA)
- Implementing Cisco Data Center Network Infrastructure 2 (DCNI-2)
- Implementing Enterprise Data Center Infrastructure Security (IEDIS)

## METRO ETHERNET

- Deploying & Maintaining Carrier Ethernet Services (DMCE)

## NETWORK MANAGEMENT

- Cisco Active Network Abstraction (CANA)
- Cisco Secure Access Control Server (CS-ACS)
- Cisco Unified Operations Manager & Service Monitor (CUOM-SM)
- Cisco Unified Provisioning Manager (CUPM)

## ROUTING & SWITCHING

- Cisco IOS XR Software Fundamentals for Network Operations (XRFUND)
- Cisco IOS XR IPV4 Routing (XIPV4R)
- Cisco IOS XR IPv6 Routing for Service Providers (XIPV6R)
- Cisco XR 12000 Series Essentials (XR12K)
- Deploy, Maintain, and Troubleshoot Cisco IOS XR Software (IOSXR)
- Cisco CRS-1 Essentials (CRS1)
- Cisco 10000 Series Essentials (C10K)
- Implementing Broadband Aggregation on Cisco Routers (BBAGG)
- ASR 1000 Essentials (ASR1K)
- Cisco ASR 9000 Aggregation Services Router Series Essentials (ASR9K)
- Cisco 7600 Series Essentials (ASISR)
- Building Core Networks with OSPF, IS-IS, BGP, and MPLS (BCN)
- Advanced Implementing and Troubleshooting MPLS VPN Networks (AMPLS)

## SECURITY

- Building Enhanced Cisco Security Networks (BECSN)

## SERVICE EXCHANGE FRAMEWORK

- Service Control Application for Broadband Training (SCA-BB)
- Service Control Application Solution Deployment (SCA-D)

## UNIFIED COMMUNICATIONS

- Cisco Unified Communications Manager 7.0 (CMBC7)
- Cisco Unified Application Environment Developer Essentials (CUAE)

## UNIFIED CONTACT CENTER

- Cisco IPCC Enterprise PPDIOO Workshop (PPDIOO)
- Customised Reporting for ICM and IPCC (IPCAR)
- Cisco IPCC Advanced Scripting (IPCAS)

## SERVICE PROVIDER VOICE

- Cisco BTS 10200 Essentials (BTSE1, BTSE2)
- Cisco IP Transfer Point (ITP)



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