Fast Lane

Advanced IT Training

Cisco Hands-On Training
2012

www.FastLaneUS.com

cisco Learning Specialized Partner

NetApp Authorized Learning Partner

vmware PARTNER AUTHORIZED TRAINING CENTER

INDC Institute for Networking & Data Center Technologies

ubuntu training partner

EC-Council

CompTIA AUTHORIZED PARTNER

ITIL ACCREDITED BY

Microsoft GOLD CERTIFIED Partner Learning Solutions

GSA Schedule Contract GS-35F-0341X

Borderless Networks

Data Center & Virtualization

Collaboration

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Delivery Methods

Fast Lane offers several delivery methods. We provide our world-class instructor led training in most major metro areas. We also provide online virtual classrooms that allow you to conserve valuable travel time and costs. Our private onsite training can be customized for your needs and delivered at your location.

We offer a robust GTR - Guaranteed to Run™ schedule, so you can enroll with confidence.

You will notice the following icons used in our course schedules on our website.

ILT - Instructor-Led Classroom Training

ILT sessions are conducted in a physical classroom environment.

ILO - Instructor-Led Online Training

ILO sessions are conducted via WebEx™ in a VoIP environment.

FLEX Classroom™ - Combined ILT & ILO

FLEX Classroom sessions are delivered via ILO and ILT giving you the ultimate flexibility.

Private Onsite Training

We can customize our award winning training and deliver to you via any of our methods.

GTR - Guaranteed to Run™

With our GTR classes, you won't have to worry about rescheduling your training. No matter how many students are enrolled, we will run the class, guaranteed.

2010-2012 Awards

- Cisco Learning Partner Channel Award of Excellence in Relevance: Americas 2011
- NetApp Storage Efficiency Award: 2011
- Cisco Learning Partner Channel Award of Excellence in Acceleration: Latin America 2012
- Top 20 IT Training Company: TrainingIndustry.com (2008, 2009, 2010, 2011)
- Cisco Learning Partner Channel Award of Excellence in Acceleration: Worldwide & European Markets 2011
- EMEA Training (VATC) Partner of the Year 2012
- Cisco European Learning Partner of the Year 2011
- Cisco Learning Partner Channel Award of Excellence in Collaboration: European Markets 2011
- Cisco Learning Partner Channel Award of Excellence in Innovation: Emerging Markets

Cisco, NetApp & VMware's Worldwide Authorized Learning Partner

Fast Lane delivers Cisco, NetApp and VMware training programs worldwide. Our instructors are certified specialists with extensive data center, storage, networking and virtualization experience. We are the fastest-growing Cisco Learning Partner Specialized in Data Center Architecture and we are authorized to deliver training in all three of Cisco's geographic theaters. Fast Lane is proud to be NetApp's only worldwide Authorized Learning Partner offering the full NetApp curriculum plus additional advanced training. We are recognized as a global VMware Authorized Training Center.

Access to an Unrivaled Lab Infrastructure

You will enjoy the use of state-of-the art hands-on labs for all areas of high-end technologies. These labs provide a real-world experience that raises the bar for training quality. Our labs are used to support all modalities of learning: classroom, virtual and self-paced.

Our Quality Assurance

All of our instructors have professional experience and excellent teaching skills, which ensures you will have an optimal training experience.

Our Expertise

Fast Lane has training offers specialized insight, skills, and real-world experience in the areas of virtualization, data center, storage, voice, business video, unified communications, security, wireless, and optical technologies. We deliver training in more than 100 countries, in 15 different languages. Let our experts help you become an expert too.

Our Aim

Fast Lane provides quality training programs on advanced and emerging technologies like FlexPod and Cloud Computing to help you stay on top of the needs of your company's IT environment.

Our Partners

Fast Lane partners with some of the best training companies, including the **Institute for Networking and Data Center Technologies (INDC),** to bring you cutting-edge training and certifications for Hewlett-Packard and Juniper Networks.

Our Promise

Training with Fast Lane means you are consistently receiving a quality education experience, built on leading edge curriculum, to help you address your IT challenges.

Routing & Switching

Unified Communications

TelePresence

Digital Media Suite (DMS)

Data Center & Virtualization

Security & VPN

Wireless

The Fast Lane Difference:

✓ **Developed 25 unique courses on the subject of virtualized data center**

✓ **Cross-certified instructors that have the highest level certifications in VMware, Cisco, Microsoft, NetApp and other vendors**

✓ **VMware classes offered in multiple delivery methods: ILT, ILO, Onsite, and Flex Classroom™,**

✓ **Over $40 million in lab investments supporting training on virtualized data center and more**

✓ **Regularly scheduled GTR - Guaranteed to Run™ courses makes enrollment easy**

Some of Our Areas of Expertise Include:

- Borderless Networks
- Network Management
- Routing
- Switching
- Security & VPN
- Wireless
- Collaboration
- Unified Communications
- Data Center
- Cloud Computing
- Virtualization
- FlexPod
- Business Video
- TelePresence

- Security & VPN
- Boot Camps
- Optical
- Multi-tenancy
- Certification Training
- Service Provider
- IPV6
- Storage
- ITILv3
- Project Management
- Virtual eXperience Infrastructure (VXI), Virtual Desktop Infrastructure (VDI)

	ROUTING & SWITCHING	STORAGE	SERVICE PROVIDER	SP OPERATIONS	SECURITY	VOICE	WIRELESS	DESIGN
Expert Level	CCIE Routing & Switching Cisco Certified Internetwork Expert — Lab Exam Cisco 360 Learning Program Written — Exam 350-001 Cisco 360 Learning Program	CCIE Storage Networking Cisco Certified Internetwork Expert — Lab Exam CCIE Storage Networking Power Lab (CCIESANPL) — Written Exam 350-040 Individual Training Program	CCIE Service Provider Cisco Certified Internetwork Expert — Lab Exam CCIE Preparation Lab Service Provider (CCIESP) — Written Exam 350-029 Individual Training Program	CCIE SP Operations Cisco Certified Internetwork Expert — Practical Exam Individual Training Program — Written Exam 350-060 Individual Training Program	CCIE Security Cisco Certified Internetwork Expert — Lab Exam Individual Training Program Written Exam 350-018	CCIE Voice Cisco Certified Internetwork Expert — Lab Exam Cisco 360 Learning Program Written Exam 350-030 Cisco 360 Learning Program	CCIE Wireless Cisco Certified Internetwork Expert — Lab Exam CCIE Wireless Lab Power Workshop (CCIEWL) Written Exam 350-050 CCIE Wireless Written Power Workshop (CCIEWW)	CCDE Cisco Certified Design Expert — Practical Exam CCDE Lab Exam Power Workshop (CCDEL5) — Written Exam 352-001 CCDE Written Exam Power Workshop (CCDEW)
Professional Level	CCNP Cisco Certified Network Professional — Troubleshooting & Maintaining Cisco IP Networks (TSHOOT) Exam 642-832 — Implementing Cisco IP Switched Networks (SWITCH) Exam 642-813 — Implementing Cisco IP Routing (ROUTE) Exam 642-902	CCNP Cisco Certified Network Professional — Troubleshooting & Maintaining Cisco IP Networks (TSHOOT) Exam 642-832 — Implementing Cisco IP Switched Networks (SWITCH) Exam 642-813 — Implementing Cisco IP Routing (ROUTE) Exam 642-902	CCIP Cisco Certified Internetwork Professional — Implementing Cisco MPLS (MPLS) Exam 642-611 — Configuring BGP on Cisco Routers (BGP) Exam 642-661 Implementing Cisco Quality of Service (QOS) Exam 642-642 — Implementing Cisco IP Routing (ROUTE) Exam 642-902	CCNP SP Operations Cisco Certified Network Professional — Maintaining Cisco Service Provider Quality of Service (MSPQS) Exam 642-785 — Maintaining Cisco Service Provider VPNs & MPLS Networks (MSPVM) Exam 642-780 — Maintaining Cisco Service Provider Routing Protocols (MSPRP) Exam 642-775 — Operational Foundations for Cisco Service Provider Core Networks (OFCN) Exam 642-770	CCNP Security Cisco Certified Network Professional — Deploying Cisco ASA VPN Solutions (VPN) Exam 642-647 — Implementing Cisco Intrusion Prevention System (IPS) Exam 642-627 — Deploying Cisco ASA Firewall Features (FIREWALL) Exam 642-617 — Securing Networks with Cisco Routers & Switches (SECURE) Exam 642-637	CCNP Voice Cisco Certified Network Professional — Troubleshooting Cisco Unified Communications (TVOICE) Exam 642-427 — Implementing Cisco UC Manager Part 2 (CIPT2) Exam 642-457 — Implementing Cisco UC Manager Part 1 (CIPT1) Exam 642-447 — Implementing Cisco UC VoIP & QoS (CVOICE) Exam 642-437 — Integrating Cisco Unified Communications Applications (CAPPS) Exam 642-467	CCNP Wireless Cisco Certified Network Professional — Implementing Cisco Unified Wireless Mobility Services (IUWMS) Exam 642-746 — Implementing Cisco Unified Wireless Voice Networks (IUWVN) Exam 642-741 — Implementing Advanced Cisco Unified Wireless Security (IAUWS) Exam 642-736 — Conducting Cisco Unified Wireless Site Survey (CUWSS) Exam 642-731	CCDP Cisco Certified Design Professional — Designing Cisco Network Service Architectures (ARCH) Exam 642-874 — Implementing Cisco IP Switched Networks (SWITCH) Exam 642-813 — Implementing Cisco IP Routing (ROUTE) Exam 642-902
Entry & Associate Level	CCENT Cisco Certified Entry Networking Technician — Interconnecting Cisco Network Devices Part 1 (ICND1) Exam 640-822	CCNA Cisco Certified Network Associate — Interconnecting Cisco Network Devices Part 2 (ICND2) Exam 640-816 *or* Interconnecting Cisco Network Devices: Accelerated (CCNAX) Exam 640-802		CCNA SP Operations — Supporting Cisco Service Provider IP NGN Operations (SSPO) Exam 640-760	CCNA Security — Implementing Cisco IOS Network Security (IINS) Exam 640-553	CCNA Voice — Introducing Cisco Voice & UC Administration (ICOMM) Exam 640-461	CCNA Wireless — Implementing Cisco Unified Wireless Networking Essentials (IUWNE) Exam 640-721	CCDA Cisco Certified Design Associate — Designing for Cisco Internetwork Solutions (DESGN) Exam 640-864

ADVANCED ROUTING & SWITCHING

Prerequisites	Recommended Training	Days	Exam
CISCO ROUTING & SWITCHING FIELD SPECIALIST			
CCNP Certification	ARSFE Advanced Routing & Switching for Field Engineers CWAAS Cisco Wide Area Application Services	3	ARSFE Exam #642-067 WAASFE Exam #642-655
CISCO ROUTING & SWITCHING SOLUTIONS SPECIALIST			
CCDA Certification	RSSSE Routing & Switching Solutions for System Engineers CWAAS Cisco Wide Area Application Services	2	RSSSE Exam #642-062 WAASSE Exam #642-654
CISCO ROUTING & SWITCHING SALES SPECIALIST			
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

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

Prerequisites	Recommended Training	Days	Exam
CISCO DATA CENTER APPLICATION SERVICES DESIGN SPECIALIST			
CCDA Certification	DCASD Designing Cisco Data Center Application Services	5	DCASD Exam #642-972
CISCO DATA CENTER APPLICATION SERVICES SUPPORT SPECIALIST			
CCNA Certification	DCASI Implementing Cisco Data Center Application Services	5	DCASI Exam #642-975
CISCO DATA CENTER NETWORKING INFRASTRUCTURE DESIGN SPECIALIST			
CCDA Certification	DCUFD Designing Cisco Data Center Unified Fabric	5	DCUFD Exam #642-991
CISCO DATA CENTER NETWORKING INFRASTRUCTURE SUPPORT SPECIALIST			
CCNP Certification	DCNI-1 Implementing Cisco Data Center Network Infrastructure1 DCUFI Implementing Cisco Data Center Unified Fabric	5	DCNIS-1 Exam #642-973 DCUFI Exam #642-992
CISCO DATA CENTER NETWORKING SALES SPECIALIST			
CSE Certification	DCNSS Data Center Networking Solution Sales		DCNSS Exam #646-985
CISCO DATA CENTER STORAGE NETWORKING DESIGN SPECIALIST			
None	DCSNS Designing Cisco Storage Networking Solutions	5	DCSNS Exam #642-357
CISCO DATA CENTER STORAGE NETWORKING SUPPORT SPECIALIST			
None	CCNA Training ICSNS Implementing Cisco Storage Networking Solutions IASNS Implem. Advanced Cisco Storage Networking Solutions	 5 5	ICSNS Exam #642-359
CISCO DATA CENTER UNIFIED COMPUTING DESIGN SPECIALIST			
VCP (VMware Certified Professional) PLUS one of the following: CCNA Certification and DCUCD 642-978 Qualifier Exam DCSNS und DCNID Certifications	DCUCD Data Center Unified Computing Design	5	DCUCD Exam #642-993
CISCO DATA CENTER UNIFIED COMPUTING SUPPORT SPECIALIST			
VCP (VMware Certified Professional) PLUS one of the following options: • CCNA Certification and DCUCI 642-979 Qualifier Exam • ICSNS und DCNIS Certifications	DCUCI Data Center Unified Computing Implementation	5	DCUCI Exam #642-994

FOUNDATION FOR CHANNEL PARTNERS

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

SECURITY & VPN

Prerequisites	Recommended Training	Days	Exam
CISCO ASA SPECIALIST			
CCNA Security Certification	FIREWALL Deploying Cisco ASA Firewall Features	5	FIREWALL Exam #642-617
	VPN Deploying Cisco ASA VPN Solutions	5	VPN Exam #642-647
CISCO FIREWALL SECURITY SPECIALIST			
CCNA Security Certification	FIREWALL Deploying Cisco ASA Firewall Features	5	FIREWALL Exam #642-617
	SECURE Securing Networks with Cisco Routers & Switches	5	SECURE Exam #642-637
CISCO IOS SECURITY SPECIALIST			
CCNA Security Certification	SECURE Securing Networks with Cisco Routers & Switches	5	SECURE Exam #642-637
Cisco IPS SPECIALIST			
CCNA Security Certification	IPS Implementing Cisco Intrusion Prevention System	5	IPS Exam #642-627
CISCO NETWORK ADMISSION CONTROL SPECIALIST			
CCNA Security Certification	CANAC Implementing Cisco NAC Appliance	3	CANAC Exam #642-591
CISCO SECURITY SOLUTIONS & DESIGN SPECIALIST			
CCDA Certification	SSSE Security Solutions for System Engineers	5	SSSE Exam #642-583
CISCO SECURITY SALES SPECIALIST			
CSE Certification	ASAM Advanced Security for Account Managers		ASAM Exam #646-578
CISCO VPN SECURITY SPECIALIST			
CCNA Security Certification	SECURE Securing Networks with Cisco Routers & Switches	5	SECURE Exam #642-637
	VPN Deploying Cisco ASA VPN Solutions	5	VPN Exam #642-647
CISCO WEB SECURITY FIELD ENGINEER SPECIALIST			
CCNP Security Certification	WSCPT Web Security for Channel Partners	2	WSFE Exam #650-568
	LCSAS Cisco Lifecycle Services Advanced Security		LCSAS Exam #650-575

WIRELESS LAN

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

COLLABORATION

Prerequisites	Recommended Training	Days	Exam
CISCO ADVANCED IP COMMUNICATIONS SALES SPECIALIST			
CSE Certification	AUCAM Advanced Unified Communications Account Manager Cisco Lifecycle Services Express		AUCAM Exam #646-230 LCSE Exam #650-393
CISCO IP COMMUNICATIONS EXPRESS SPECIALIST			
CCNA Certification	IIUC2 Implementing Cisco IOS Unified Communications Part 2 Cisco Lifecycle Services Express	5	IIUC2 Exam #642-145 LCSE Exam #650-393
CISCO IP COMMUNICATIONS EXPRESS SALES SPECIALIST			
CSE Certification	UCXAM Unified Communications Express AM Cisco Lifecycle Services Express		UCXAM Exam #646-223 LCSE Exam #650-393
CISCO IP CONTACT CENTER EXPRESS SPECIALIST			
None	UCCXD Deploying Cisco Unified Contact Center Express	5	UCCX Exam #642-165
CISCO IP COMMUNICATIONS DESIGN SPECIALIST			
CCDA Certification	UCAD Cisco Unified Communications Architecture & Design QOS Implementing Cisco QoS Cisco Lifecycle Services for Advanced Unified Communications	5	UCAD Exam #642-415 QOS Exam #642-642 LCSAUC Exam #650-251
CISCO MEETINGPLACE DESIGN SPECIALIST			
None	DMPS Designing Cisco Unified MeetingPlace Solutions	3	DMPS Exam #642-272
CISCO MEETINGPLACE SUPPORT SPECIALIST			
None	IMPS Implementing MeetingPlace Solutions	5	IMPS Exam #642-274
CISCO MEETINGPLACE SALES SPECIALIST			
CSE Certification	SMPS Selling Cisco Unified MeetingPlace Solutions		SMPS Exam #646-276
CISCO RICH MEDIA COMMUNICATIONS SPECIALIST			
CCNA Certification	ICRMC Implem. Cisco IP Video Conference Rich Media Comm. CVOICE Cisco Voice over IP	5	CRMC Exam #642-481 CVOICE Exam #642-437
CISCO UNITY DESIGN SPECIALIST			
CCDA Certification	CUDN Cisco Unity Design & Networking	4	CUDN Exam #642-072
CISCO UNITY SUPPORT SPECIALIST			
None	IUC Implementing Cisco Unity Connection	3	IUC Exam #642-263
CISCO UNIFIED PRESENCE SPECIALIST			
None	PRSDI Cisco Unified Presence Design & Implementation	3	PRSDI Exam #642-181
CISCO TELEPRESENCE INSTALLATIONS SPECIALIST			
None	ITI Implementing Cisco TelePresence Installation		ITI Exam #642-188
CISCO TELEPRESENCE SOLUTIONS SPECIALIST			
CCNA Certification	ITS Implementing Cisco TelePresence Solutions PITS Physical Installation of Cisco TelePresence Systems	4 2	ITS Exam #642-185

Interconnecting Cisco Network Devices Part 1 (ICND1) $3,095 or 31 CLCs - 5 days

Delivery Methods:

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 Part 2 (ICND2) $2,995 or 30 CLCs - 5 days

Delivery Methods:

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 Routing (ROUTE) $3,195 or 32 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices 1 (ICND1)
- Interconnecting Cisco Network Devices 2 (ICND2)

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

Implementing Cisco IP Switching (SWITCH) $3,195 or 32 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices 1 (ICND1)
- Interconnecting Cisco Network Devices 2 (ICND2)

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) $3,395 or 34 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Implementing Cisco IP Routing (ROUTE)
- Implementing Cisco IP Switching (SWITCH)

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
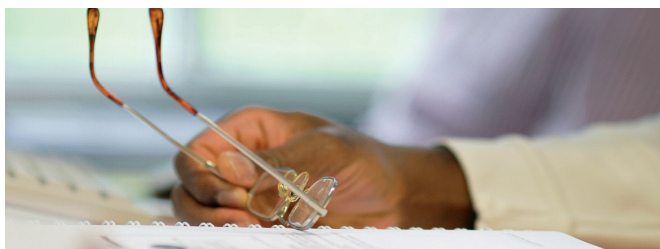
The Cisco CCIE 360 Learning Program for Routing & Switching is intended to accelerate the skills and competencies of networking professionals, who have at least three years of experience, to an expert level of expertise. The program offers multiple learning products and services intended to be blended 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 Part 1 (CIERS 1) $4,195 or 42 CLCs - 5 days

Delivery Methods:

COURSE CONTENT
CIERS Workshop 1 is approximately 60 percent lecture and 40 percent hands-on labs that focus on IPv6, Frame Relay, Cat QoS, Link Layer, IGP, BGP and MPLS. Also includes two 8-hour performance assessments, which are graded and returned with mentor feedback.

Cisco Internetwork Expert Routing & Switching Part2 (CIERS 2) $4,595 or 46 CLCs - 5 days

Delivery Methods:

COURSE CONTENT
CIERS Workshop 2 is approximately 20 percent lecture and 80 percent hands-on labs that focus on advanced configuration and troubleshooting. Also includes five 8-hour performance assessments, which are graded and returned with mentor feedback.

Implementing Cisco Catalyst 6500 Series Switches (RSCAT6K) — 2,495 or 25 CLCs - 3 days

Delivery Methods:

PREREQUISITES
- Cisco Certified Network Associate (CCNA) level of knowledge

COURSE CONTENT
- Cisco Catalyst 6500 Series Switches Architecture
- Assessing the Cisco Catalyst 6500 Series Switches
- Listing Cisco Catalyst 6500 Series Switch Supervisor Engines
- Choosing Cisco Catalyst 6500 Series Switch Line Cards
- Characterizing Packet Forwarding in a Cisco Catalyst 6500 Series Switch
- Describing Unicast Packet Walks Between Different Line Cards
- Core Technologies on the Cisco Catalyst 6500 Series Switches
- Applying the Virtual Switching System 1440/4T to a Network
- Analyzing Multicast on the Cisco Catalyst 6500 Series Switches
- Characterizing Identity and Authentication
- Introducing Network Virtualization
- Describing Data Center Interconnect Using Cisco Catalyst 6500 Series Switches
- Planning and Implementing High Availability on Cisco Catalyst 6500 Series Switches
- Cisco Catalyst 6500 Monitoring and Operations
- Configuring SPAN, RSPAN and ERSPAN
- Configuring NetFlow
- Introducing Enhanced Manageability
- Deploying Control Plane Policing
- Implementing ACL Features
- Prioritizing Traffic through the Catalyst 6500 using QOS

Virtual Switching System VSS 1440/4T (VSS) — $1,495 - 2 days

Delivery Methods:

PREREQUISITES
- Cisco Certified Network Professional (CCNP) level of knowledge

COURSE CONTENT
- Stateful Switchover (SSO) and Non-Stop Forwarding (NSF)
- The Virtual Switching System (VSS) concept
- Deployment in a hierarchical network
- Hard- and Software requirements
- Virtual Switch Link – function and deployment
- Link Management Protocol (LMP)
- Role Resolution Protocol (RRP)
- Migration from Single-Chassis-systems to a VSS system
- Multi-Chassis-EtherChannel (MEC)
- Identification of a Dual-Active state with PAgP+, BFD or Fast Hellos
- Monitor VSS with Syslog and SNMP
- Tuning of VSS and important management commandos
- Identification of potential problems with the implementation and operation of VSS, including prevention and troubleshooting
- Enhanced Fast Software Upgrade
- Application of Modular IOS
- Quad Supervisor-Engine Support
- Operation of Services Modules like ACE or FWSM in a VSS
- Operation of MPLS, IPv6, EEM and NetFlow

Cisco Catalyst 6500 Sup2T Advanced Configuration Bundle (CAT6KVS) $3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Cisco Certified Network Associate (CCNA) level of knowledge

COURSE CONTENT
This 5-day class combines content of these classes:
- Implementing Cisco Catalyst 6500 Series Switches (RSCAT6K)
- Virtual Switching System VSS 1440/4T (VSS)

Cisco Catalyst 6500 & Cisco 7600 Series Routers Firewall Services Module Deployment (FWSMD) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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

Designing for Cisco Internetwork Solutions (DESGN) $3,095 or 31 CLCs - 5 days

Delivery Methods:

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

Designing Cisco Network Service Architectures (ARCH) $2,595 or 25 CLCs - 5 days

Delivery Methods:

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

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) $3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices 2 (ICND2) course

COURSE CONTENT
- Introduction to QoS
- The Building Blocks of QoS
- Introduction to MQC and Cisco AutoQoS
- Classification and Marking
- Congestion Management
- Congestion Avoidance
- Traffic Policing and Shaping
- Link Efficiency Mechanisms
- QoS Best Practices

Configuring BGP on Cisco Routers (BGP) $3,195 or 32 CLCs - 5 days

Delivery Methods:

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

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) $3,695 or 37 CLCs - 5 days

Delivery Methods:

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

COURSE CONTENT
- IP Multicast Concepts and Technologies
- Multicast on the LAN
- PIM Sparse Mode
- Rendezvous Point Engineering
- PIM Sparse Mode Protocol Extensions
- Multiprotocol Extensions for BGP
- Interdomain IP Multicast
- IP Multicast Security
- Multicast Optimization and High Availability Features
- Applications of Multicast

IPv6 Fundamentals, Design & Deployment (IP6FD) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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

COURSE CONTENT
- Introduction to IPv6
- IPv6 Operations
- IPv6 Services
- IPv6-Enabled Routing Protocols
- IPv6 Multicast Services
- IPv6 Transition Mechanisms
- IPv6 Security
- Deploying IPv6
- IPv6 and Service Providers
- IPv6 Case Studies

Introduction to IPv6 for Service Providers (IPV6SPAM) $1,195 - 2 days

Delivery Methods:

PREREQUISITES
- Familiarity with IPv4 routing and switching, preferably at the CCNA or CCDA level of understanding

COURSE CONTENT
- Overview of IPv6
- IPv6 Addressing in depth
- IPv6 Operations
- IPv6 Applications and Services
- IPv6 routing protocols
- Introduction to IPv6 Multicast
- IPv6 Transition & customer integration Strategies including dual stack, 6to4 and 6RD Tunnels, NAT64 and DNS64 translation, Large Scale Nat (LSN or CGN) NAT444, NAT464, DS-Lite, 6PE and 6VPE
- Introduction to IPv6 Security
- Introduction to IPv6 QoS

Implementing IPv6 Solutions for Service Providers (IPV6SPSE) $3,195 - 5 days

Delivery Methods:

PREREQUISITES
- CCNA or equivalent in experience
- Firm grasp of IPv4 routing, switching and related concepts

COURSE CONTENT
- Designing Cisco IPv6 solutions for Service Providers
- Overview of IPv6
- Overview of Cisco IPv6 solutions for the Service Provider market
- Overview of IPv6-related products pertinent to the Service Provider market
- How Can Service Providers Face IPv4 Address Exhaustion?
- 6bone Connection Using 6to4 Tunnels for IPv6
- IPv6 Access Services
- DHCPv6 Based IPv6 Access Services
- Implementing IPv6 VPN Provider Edge Transport over MPLS on Cisco IOS

Implementing Cisco MPLS (MPLS) $3,195 or 32 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices 2 (ICND2)
- Implementing Cisco IP Routing (ROUTE)
- Configuring BGP on Cisco Routers (BGP)

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 & MPLS VPNs
- MPLS TE Overview

Implementing Cisco IOS Network Security (IINS) — $3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices (ICND1, ICND2)

COURSE CONTENT
- Introduction to Network Security Principles
- Perimeter Security
- Network Security Using Cisco IOS Firewalls & IPS
- Site-to-Site VPNs
- LAN, SAN, Voice, and Endpoint Security Overview

Securing Networks with Cisco Routers & Switches (SECURE) — $3,395 or 34 CLCs - 5 days

Delivery Methods:

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

Deploying Cisco ASA Firewall Features (FIREWALL) — $3,395 or 43 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Cisco Certified Network Associate (CCNA) certification or equivalent knowledge
- Cisco Certified Network Associate 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

Cisco IronPort Web Security Channel Partner Training (WSCPT) — $1,550 or 16 CLCs - 2 days

Delivery Methods:

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

Fast Lane

Deploying Cisco ASA VPN Solutions (VPN) $3,395 or 34 CLCs - 5 days

Delivery Methods:

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 Subsystems

- 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 NAC Appliance (CANAC) $3,095 or 31 CLCs - 3 days

Delivery Methods:

PREREQUISITES
- Implementing Cisco IP Routing (ROUTE)
- Implementing Cisco IP Switching (SWITCH)
- 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

Implementing Cisco Intrusion Prevention System (IPS) $3,395 or 34 CLCs - 5 days

Delivery Methods:

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 OS

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 Unified Wireless Network Essentials (IUWNE) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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

COURSE CONTENT
- Describe WLAN Fundamentals
- Install a Basic Cisco Wireless LAN
- Install Wireless Clients
- Implement Basic WLAN Security
- Operate Basic WCS
- Conduct Basic WLAN Maintenance and Troubleshooting

Conducting Cisco Unifed Wireless Site Survey (CUWSS) $3,095 or 31 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices Part 1 (ICND1),
- Interconnecting Cisco Network Devices Part 2 (ICND2)
- 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
- Collect Information for the Site Survey
- Prepare and Plan for the Site Survey
- Conduct the Site Survey
- Design the RF Network
- Assess the Deployment

Implementing Advanced Cisco Unified Wireless Security (IAUWS) $3,095 or 31 CLCs - 5 days

Delivery Methods:

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

COURSE CONTENT
- Organizational and Regulatory Security Policies
- Secure Client Devices
- Design and Implement Guest Access Services
- Design and Integrate Wireless Network with Cisco NAC Appliance
- Internal and Integrated External Security Mitigation

Implementing Cisco Unified Wireless Voice Networks (IUWVN) $3,095 or 31 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices Part 1 (ICND1),
- Interconnecting Cisco Network Devices Part 2 (ICND2)
- Implementing Cisco Unified Wireless Networking Essentials (IUWNE)
- 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
- Implementation of QoS for Wireless Applications
- Voice over Wireless Architecture
- Implement a VoWLAN
- Implement Multicast over Wireless
- Prepare the Wireless Network for Video and High Bandwidth Applications

Cisco Unified Wireless Networking (CUWN)   **$3,295 or 33 CLCs - 5 days**

Delivery Methods:

PREREQUISITES

CCNA or equivalent work experience
Familiarity with Windows and Windows Networking
Prior attendance of CWLF or IUWNE recommended

COURSE CONTENT

- Cisco Wireless LAN Solutions
- CUWN Installation and Configuration
- CUWN Administration
- CUWN Security
- CUWN Maintenance and Troubleshooting

Cisco CCIE Wireless Lab Power Workshop (CCIEWL)   **$4395 - 5 days**

Delivery Methods:

COURSE CONTENT

This intensive power workshop is designed to give you a firm knowledge and lab training practice needed to successfully pass the CCIE Wireless lab exam. This class is heavily focused on lab training and practice. You will work on an independent rack offering all the features that may need to be configured in the real lab exam.

Cisco Wireless Mesh Networks (CWMN)
$2,295 or 23 CLCs - 3 days

Delivery Methods:

PREREQUISITES
- Cisco Wireless LAN Fundamentals (CWLF)
- Cisco Wireless LAN Advanced Topics (CWLAT)

COURSE CONTENT
- Describing the Cisco Wireless Mesh Solution
- Configuring a Wireless Controller
- Installation, Configuration, and Management of Mesh Networks
- Wireless Mesh Design Requirements
- Verification and Troubleshooting

Designing Cisco RF Networks (DRFN)
$2,495 or 25 CLCs - 3 days

Delivery Methods:

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

COURSE CONTENT
- Principles of Wireless Mesh Networks
- Basic RF for Wi-Fi Mesh Design
- Wi-Fi Mesh Network Design
- Propagation Modeling of Mesh Networks
- The Business Case and Case Study

Cisco Wireless Mesh & RF Design Power Workshop (WMRFPW)
$3,095 or 31 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Basic understanding of PC hardware configurations and networking business drivers and 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)
- Designing Cisco RF Networks (DRFN)

Designing Data Center Application Services (DCASD)
$3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
Basic understanding of the following topics:
- the TCP/IP protocol
- 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 Data Center Application Services (DCASI) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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) $2,995 or 30 CLCs - 5 days

Delivery Methods:

PREREQUISITES

- Basic understanding of: TCP/IP protocol, 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
- Integrating Multiple Features

Implementing the Application Control Engine Service Module (ACESM) $2,995 or 30 CLCs - 5 days

Delivery Methods:

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

Designing an Enterprise Application Infrastruture with ACE Family (ACEDES) $3,495 or 35 CLCs - 5 days

Delivery Methods:

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

Data Center Unified Computing Design (DCUCD) $3,495 or 35 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- CCNA certification
- MDS 9x00, Nexus 5000, Nexus 7000, Catalyst 6500,& ACE Engineer Level Knowledge
- VMware Certified Professional (VCP)
- Designing Cisco Storage Networking Solutions (DCSNS)
- Designing Cisco Data Center Unified Fabric (DCUFD)

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

Cisco Data Center Unified Computing System C- Series Troubleshooting (DCUCSCTS) $1,695 or 17 CLCs - 2 days

Delivery Methods:

PREREQUISITES
- Data Center Unified Computing Implementation (DCUCI)
- Data Center Unified Fabric Implementation (DCUFI)

COURSE CONTENT
- Troubleshooting Methodology
- Troubleshooting Management Access
- Configuring Firmware Updates

- Troubleshooting LAN Connectivity
- Troubleshooting SAN Connectivity
- Troubleshooting RAID
- Troubleshooting Operating System Driver Issues
- Configuring C-Series Integration with UCS Manager

Data Center Unified Computing Implementation (DCUCI) $3,495 or 35 CLCs - 5 days

Delivery Methods:

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)
- Implementing Cisco Data Center Unified Fabric (DCUFI)

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

Implementing Cisco Data Center Network Infrastructure (DCNI1) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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

Designing Data Center Unified Fabric (DCUFD) $3,295 OR 33CLCs - 5 days

Delivery Methods:

PREREQUISITES
- CCDA certification

COURSE CONTENT
- Data Center Design Fundamentals
- Introducing the Data Center
- Identifying the Cisco Data Center Business Advantage
- Designing Data Center Solutions
- Data Center Network Infrastructure
- Introducing Cisco Catalyst Series Switches
- Introducing Cisco Nexus Series Switches
- Introducing Cisco Data Center Security Products
- Introducing Cisco Data Center Application Services Products
- Introducing Cisco SAN Products
- Introducing Cisco Computing, Desktop, and Solution Products
- Introducing Cisco Data Center Network Management
- Data Center Network Virtualization Principles
- Introducing Device Virtualization
- Introducing Network Virtualization
- Introducing Fabric Virtualization
- Identifying Data Center Standards and Trends
- Data Center Topologies
- Designing Data Center Topologies
- Designing Data Center Topologies Using FEX
- Designing Data Center Interconnect Solutions
- Data Center Services and Security
- Designing Data Center IP Services
- Designing Data Center Application Services
- Designing Data Center Security
- Data Center Standards
- Sizing the Data Center

Implementing Cisco Data Center Unified Fabric (DCUCFI) $3,695 or 37 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Good understanding of networking protocols
- Recommended CCNA Certification
- Good understanding of the Fibre Channel protocol and the SAN environment
- Recommended attendance of a Fibre Channel protocol class or equivalent experience
- Recommended attendance of the Implementing Cisco Storage Network Solutions (ICSNS) class or equivalent experience

COURSE CONTENT
- Cisco Nexus Product Overview
- Cisco Nexus Switch Feature Configuration
- Cisco Nexus Switch Advanced Feature Configuration
- Cisco Nexus Series Switch Management
- Redundancy on Cisco Nexus Switches
- Fibre Channel over Ethernet
- Fibre Channel over Ethernet Configuration
- Troubleshooting on Cisco Nexus Switches

Implementing the Cisco Nexus 1000 (DCNX1K)　　　$2,495 or 25 CLCs - 3 days

Delivery Methods:

PREREQUISITES
- Good understanding of networking protocols
- Recommended CCNA Certification
- Good understanding of the VMware environment
- Recommended attendance of the VMware vSphere: Install, Configure, Manage (VICM) class or equivalent knowledge

COURSE CONTENT
- VMware Networking Overview
- Cisco Nexus 1000V Series Switch Installation
- Cisco Nexus 1000V Feature Configuration
- Cisco Nexus 1000V Switch Management
- Troubleshooting the Cisco Nexus 1000V Switch

Implementing the Cisco Nexus 5000 (DCNX5K)　　　$3,495 or 35 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Good understanding of networking protocols
- Recommended CCNA Certification
- Good understanding of the Fibre Channel protocol and the SAN environment
- Recommended attendance of a Fibre Channel Protocol class or equivalent experience
- Recommended attendance of the Implementing Cisco Storage Networking Solutions (ICSNS) class or equivalent experience.

COURSE CONTENT
- Cisco Nexus 5000 Product Overview
- Network Feature Configuration on the Cisco Nexus 5000 Switch
- System Management Features
- Fibre Channel over Ethernet (FCoE)
- Fibre Channel over Ethernet (FCoE) Configuration
- Troubleshooting

Implementing the Cisco Nexus 7000 (DCNX7K)　　　$3,495 or 35 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Good understanding of networking protocols, routing & switchingRecommended CCNA Certification
- Recommended attendance of Implementing Cisco IP Routing (ROUTE)
- Recommended attendance of Implementing Cisco IP Switched Networks (SWITCH)

COURSE CONTENT
- Cisco Nexus 7000 Switch Product Overview
- Cisco Nexus 7000 Switch Feature Configuration
- Cisco Nexus 7000 Advanced Switch Feature Configuration
- Cisco Nexus 7000 Management
- Redundancy on the Cisco Nexus 7000 Switch
- Troubleshooting on the Cisco Nexus 7000 Switch
- Fibre Channel over Ethernet (FCoE) on the Cisco Nexus 7000 Switch

Cisco Wide Area Application Services (CWAAS)　　　$3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- CCNA certification or equivalent knowledge

COURSE CONTENT
- Cisco Wide-Area Application Services
- Cisco WAAS Quick Start
- Implementation, Integration, and Management
- Cisco WAAS Application Optimizers
- Cisco WAAS Design and Troubleshooting
- Cisco WAAS Mobile Client Solution

Fast Lane

Implementing Cisco Unified Communications Manager Part 1 (CIPT1)	$3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Working knowledge of converged voice and data networks
- Working knowledge of the MGCP, SIP, and H.323 1 protocols and their implementation on Cisco IOS gateways
- Ability to configure and operate Cisco routers and switches
- Ability to configure and operate Cisco UC 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 (CIPT2)	$3,295 or 33 CLCs - 5 days

Delivery Methods:

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 Communications Architecture & Design (UCAD)	$3,195 or 32 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices 1 (ICND1),
- Interconnecting Cisco Network Devices 2 (ICND2)
- Designing for Cisco Internetwork Solutions (DESGN)
- Implementing Cisco Voice Communications & QoS (CVOICE)
- Implementing Cisco Unified Communications Manager 1 (CIPT1)
- Implementing Cisco Unified Communications Manager 2 (CIPT2) courses

COURSE CONTENT
- Cisco Unified Communications Architecture Overview
- LAN Design for Cisco Unified Communications Call Control
- WAN Design for Cisco Unified Communications Call Control
- Component Design for Cisco Unified Communications Call Control

Implementing Cisco Unified Messaging (IUM)	$2,795 or 28 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- A working knowledge of Microsoft Windows 2003
- A working knowledge of Microsoft Exchange Server 2003
- Features, benefits, and programming of at least one manufacturer PBX (Cisco Unified Communications Manager preferred)
- Administering Cisco Unified Messaging (AUM) course

COURSE CONTENT
- Cisco Unified Messaging System Hardware and Software
- Unified Messaging Integrations
- Unified Messaging Networking
- Unified Communications Maintenance and Utilities

Implementing Cisco Unified Communications Security (UCSEC) $3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Cisco CCNP Voice level of knowledge

COURSE CONTENT
- Vulnerabilities of Cisco Unified Communications Networks
- Security Fundamentals
- Network Infrastructure Security
- Cisco Unified Communications Manager and Endpoint Security Features
- Secure Cisco Unified Communications Integration and Features

Troubleshooting Cisco Unified Communications (TVOICE) $3,295 or 33 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Working knowledge of converged voice and data networks
- Working knowledge of the MGCP, SIP, and H.323 and their implementation on Cisco IOS gateways
- Working knowledge of Cisco Unified Communications Manager
- Cisco Unified Communications features and applications
- Cisco IOS voice gateways in a single-site and multisite environment

COURSE CONTENT
- Introduction to Troubleshooting Cisco Unified Communications Solutions
- Cisco Unified Communications Manager Troubleshooting
- Troubleshooting Call Setup Issues
- SAF and CCD Issues
- Troubleshooting Cisco Unified Communications Manager Features and Application Issues
- Voice Quality and Media Resources Issues

Administering Cisco Unity Connection (AUC) $1,695 or 17 CLCs - 2 days

Delivery Methods:

PREREQUISITES
- Basic understanding of fundamental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing.
- Basic knowledge of traditional PSTN operations and technologies, including PBX and voice-mail administration tasks
- Basic understanding of Cisco Unified Communications Manager

COURSE CONTENT
- Introduction to Cisco Unity Connection
- Configuration of Users and Contacts
- Implementation of Features
- Use of Cisco Unity Connection Applications, Tools and Reports

Administering Cisco Unified Messaging (AUM) $1,995 or 20 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- A working knowledge of Microsoft Windows 2000
- A working knowledge of the Microsoft Exchange
- A working knowledge of the features, benefits, and programming of at least one manufacturer's PBX

COURSE CONTENT
- Cisco Unified Messaging Overview
- Cisco Unified Messaging General Setup
- Cisco Unified Messaging Subscriber Configuration
- Cisco Unified System Monitoring and Maintenance

Introducing Cisco Voice & Unified Communications (ICOMM) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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 (CVOICE) $3,295 or 33 CLCs - 5 days

Delivery Methods:

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 ImplementationG
- Gatekeeper and Cisco Unified Border Element Implementation
- Quality of Service

Implementing Cisco Unity Connection (IUC) $2,795 or 28 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Basic understanding of fundamental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing
- Basic knowledge of traditional public switched telephone network (PSTN) operations and technologies, including PBX and voice mail administration tasks
- Basic understanding of CiscoUnified Communications Manager or legacy PBX implementations

COURSE CONTENT
- Introduction to Cisco Unity Connection
- Cisco Unity Connection Installation and Integration
- Digital Networking Configuration
- VPIM Networking Configuration
- Advanced Integration Concepts
- Cisco Unity Connection Tools

Administering Cisco Unified Contact Center Enterprise (AUCCE) $3,695 or 37 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Familiarity with Call Center operations
- Microsoft ActiveDirectory
- Microsoft Windows 2003
- Microsoft SQL Server 2005

COURSE CONTENT
- Cisco Unified Contact Center Enterprise Product Overview
- Configuring Cisco Unified Contact Center Enterprise
- Extended Functions
- Administrative Scripts and Translation Routing
- Configuring a Second Peripheral
- Configuring Cisco Outbound Option
- Cisco Unified Intelligence Center

Deploying Cisco Unified Contact Center Enterprise (DUCCE) $3,695 or 37 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- AUCCE course

COURSE CONTENT
- Cisco Unified Contact Center Enterprise Overview
- Cisco UCC Enterprise Component Architecture
- Installing Cisco Unified Contact Center Enterprise
- Database and Application Driven Routing Options
- Installing Cisco Outbound Options
- Reporting and Maintenance Tools

Deploying Cisco Unified Intelligence Center (DUIC) $2,995 or 30 CLCs - 3 days

Delivery Methods:

PREREQUISITES
- Working knowledge of Unified Contact Center Enterprise

COURSE CONTENT
- Cisco Unified Intelligence Center Overview
- Cisco UIC Installation, Administration, and Security
- Running Cisco Unified Intelligence Center Reports
- Cisco Unified Intelligence Center Custom Reporting

Cisco Unified Contact Center Power Workshop (CUCCPW) $7,595 or 76 CLCs - 3 days

Delivery Methods:

PREREQUISITES
Familiarity with:
- Call Center operations
- Microsoft ActiveDirectory
- Microsoft Windows 2003, Microsoft SQL Server 2005

COURSE CONTENT
This course will give you an understanding of the:
- Cisco Unified Contact Center Enterprise (CCE) system
- Intelligent Contact Management (ICM) routing application
- Cisco Outbound Option

Fast Lane

Unified Contact Center Express and Unified IP IVR Deployment (UCCXD) $3,595 or 36 CLCs - 4 days

Delivery Methods:

PREREQUISITES
- Internetworking fundamentals
- Basic IP telephony concepts
- Cisco Unified Communications Manager
- Cisco IP phones & Cisco IP Communicator
- Contact Center operations
- Microsoft Windows 2000, 2003, XP and MS SQL Server
  knowledge and skills

COURSE CONTENT
• Cisco Unified Contact Center Express Product Overview
• Installing and Configuring Cisco Unified Contact Center
  Express
• Cisco Unified Contact Center Express Scripting
• Cisco Unified Contact Center Express ACD Operations
• Cisco Unified Contact Center Express Premium Functions
• Cisco Unified Contact Center Express Maintenance Tools

Unified Contact Center Express Advanced (UCCXA) $3,595 - 4 days

Delivery Methods:

PREREQUISITES
- Unified Contact Center Express (UCCXD) course

COURSE CONTENT
• Session Management
• Build Common Utilities
• ACD Routing

• Common / Good Practices
• Database Setup / Steps
• Advanced ACD Callback Options
• Advanced DB Configuration
• Agent Desktop Configuration

Implementing Cisco Unified Email & Web Interacton Manager Enterprise (UEIME) $3,695 or 37 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Working knowledge of Windows 2003 Server
- Windows XP
- Basic knowledge of
- SQL Server, WebLogic and IIS
- Unified CCE
- Hosted or Unified ICM Architecture & Configuration

COURSE CONTENT
• Architecture / Installation
• User Management
• General Administration and Workflows
• The E-Mail Agent
• The Integrated System
• Unified Contact Center Enterprise Configuration
• Unified WIM
• Monitoring, Reporting, and Troubleshooting
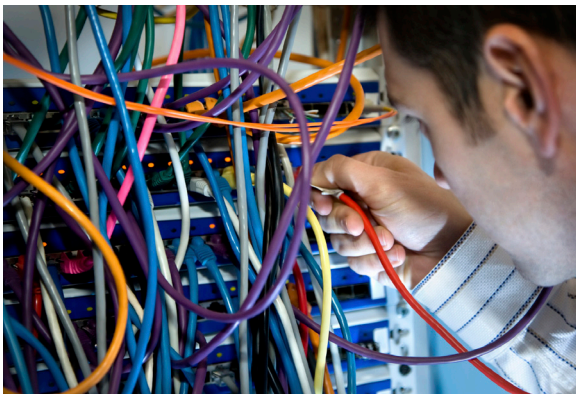
Implementing Cisco TelePresence Solutions Immersive (ITSI) $3,995 of 40 CLCs - 2 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices Part 1 (ICND1),
- Interconnecting Cisco Network Devices Part 2 (ICND2),
- Implementing Cisco Quality of Service (QOS),
- Implementing Cisco Unified Communications Manager, Part 1(CIPT1)

COURSE CONTENT
- Introduction to Cisco TelePresence
- Exploring the Cisco TelePresence Solution
- Exploring the Cisco TelePresence Environments
- Planning a Cisco TelePresence Room Design
- Cisco TelePresence Planning and Assessment
- Managing the Project and Product Order
- Examining Room Readiness Requirements
- Examining the Basics of Acoustics
- Examining Lighting Basics
- Planning a Cisco TelePresence Room Design
- Physical Assembly and Logistics
- Preparing for a Cisco TelePresence System Installation
- Assembling the Cisco TelePresence Systems 3000 & 3200
- Assembling the Cisco TelePresence Systems 500, 1000, 1100, and 1300
- Installing Auxiliary Displays
- Installing a Document Camera
- Wiring
- Tuning the Cisco TelePresence System
- Cisco TelePresence Call Control
- Integrating Cisco TelePresence Endpoints with Cisco Unified Communications Manager
- Examining the Cisco TelePresence User Interface
- Cisco TelePresence Network Architecture
- Deploying a Cisco TelePresence Network
- Shaping and Policing
- Setting a QoS Policy
- Designing WAN and Branch QoS Policies
- Understanding the NPA
- Using the VSAA
- Cisco TelePresence Extended System Features
- Understanding the Cisco TelePresence Multipoint Switch
- Exploring One-Button-to-Push Without Cisco TelePresence Manager
- Examining Cisco TelePresence Interoperability
- Working with the Cisco TelePresence Recording Server
- Examining Intercompany Communications
- Examining Cisco TelePresence Security

Physical Installation of Cisco TelePresence Systems (PITS) $795 or 8 CLCs - 2 days

Delivery Methods:

PREREQUISITES
- Basic computer literacy
- Basic Windows navigation skills
- Basic Internet usage skills
- Basic email usage skills

COURSE CONTENT
- Introduction to Cisco TelePresence
- Exploring the Cisco TelePresence Solution
- Exploring the Cisco TelePresence Environments
- Cisco TelePresence Planning and Assessment
- Managing the Project and Product Order
- Examining Room Readiness Requirements
- Examining the Basics of Acoustics
- Examining Lighting Basics
- Planning a Cisco TelePresence Room Design
- Physical Assembly and Logistics
- Preparing for a Cisco TelePresence System Installation
- Assembling the Cisco TelePresence Systems 3000 & 3200
- Assembling the Cisco TelePresence Systems 500, 1000, 1100, & 1300
- Installing Auxiliary Displays
- Installing a Document Camera
- Wiring
- Tuning the Cisco TelePresence System

Implementing Express TelePresence Video Solutions (PAIETVS) $1,595 or 16 CLCs - 5 days

Delivery Methods:

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

COURSE CONTENT
- Endpoints: 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

Implementing Advanced TelePresence Video Solutions Part 1 (PAIATVS1) $3,995 or 40 CLCs - 5 days

Delivery Methods:

PREREQUISITES
- Completed and passed the PATVSEE and PATVSEA exams

COURSE CONTENT
- Cisco TelePresence System Integrator C Series Endpoints
- Operating the C Series
- Finding Documentation for the C Series
- Installing the C Series Endpoints
- Configuring the C Series Endpoints
- Maintaining the Codec C90
- Troubleshooting the C Series Codec
- Call Control for the Cisco TelePresence Video Communication Server
- Understanding Registration Protocols and Cisco VCS Installation
- Configuring Cisco TelePresence Video Communication Server
- Backing Up and Restoring the Configuration
- Troubleshooting Call Issues

- Cisco TelePresence Multipoint Control Unit
- Setting Up the Cisco TelePresence Multipoint Control Unit
- Configuring the Cisco TelePresence Multipoint Control Unit
- Operating the Cisco TelePresence Multipoint Control Unit
- Customizing the Cisco TelePresence Multipoint Control Unit
- Using Global Conference Settings
- Upgrading and Backing Up Cisco MCU Software
- Troubleshooting the Cisco TelePresence Multipoint Control Unit
- Cisco TelePresence Management Suite
- Operating the Cisco TelePresence Management Suite
- Installing and Configuring the Cisco TelePresence Management Suite and the SQL Database
- Using SQL
- Creating Zones & Creating Permissions
- Troubleshooting the Cisco TelePresence Management Suite

Implementing Advanced TelePresence Video Solutions Part 2 (PAIATVS2) $3,995 or 40CLs - 5 days

Delivery Methods:

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 Cisco TelePresence Solutions (ITS)　$2,995 or 30 CLCs - 4 days

Delivery Methods:

PREREQUISITES
- Interconnecting Cisco Network Devices Part 1 (ICND1),
- Interconnecting Cisco Network Devices Part 2 (ICND2)
- Implementing Cisco Quality of Service (QOS),
- Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) courses

COURSE CONTENT
- Introduction to Cisco TelePresence
- Exploring the Cisco TelePresence Solution
- Exploring the Cisco TelePresence Environments
- Planning a Cisco TelePresence Room Design
- Cisco TelePresence Call Control
- Integrating Cisco TelePresence Endpoints with Cisco Unified Communications Manager
- Examining the Cisco TelePresence User Interface
- Cisco TelePresence Network Architecture
- Deploying a Cisco TelePresence Network
- Shaping and Policing
- Setting a QoS Policy
- Designing WAN and Branch QoS Policies
- Understanding the NPA
- Using the VSAA
- Cisco TelePresence Extended System Features
- Understanding the Cisco TelePresence Multipoint Switch
- Exploring One-Button-to-Push Without Cisco TelePresence Manager
- Examining Cisco TelePresence Interoperability
- Working with the Cisco TelePresence Recording Server
- Examining Intercompany Communications
- Examining Cisco TelePresence Security

Digital Media Suite (DMS)　$3,495 or 35 CLCs - 4 days

Delivery Methods:

PREREQUISITES
- An understanding of basic routing & switching including multicasting

COURSE CONTENT
- Digital Media Suite Overview
- DMP Hardware
- DMP Firmware
- Understanding DMPDM
- Understanding Medianet
- Setting up and Configuring
- Cisco Professional LCD
- Upgrading and Installing DMM
- Configuring Digital Signs Module
- Understanding DMD
- Content Development Process
- Proof of Play
- Understanding DMS-CD
- Cast
- Viewer's view
- Upgrading/Installing Show and Share
- Configuring Show and Share
- Generating and Editing Videos
- Live Events
- Digital Media Encoder DME1100
- Media eXperience Engine
- High Availability (Failover)
- Single Sign-On (SSO)

Cisco Advanced Services Training

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DATA CENTER
- Securing Enterprise Data Center Architectures with FWSM, IDSM-2, Guard & Detector (SEDCA)
- Implementing Enterprise Data Center Infrastructure Security (IEDIS)

METRO ETHERNET
- Deploying & Maintaining Carrier Ethernet Services (DMCE)

NETWORK MANAGEMENT
- Cisco Active Network Abstraction (CANA)
- Cisco Unified Provisioning Manager (CUPM)
- Cisco Unified Operations Manager, Service Monitor & Service Statistics Manager (OM-SM-SSM)

ROUTING & SWITCHING
- Cisco IOS XR Software Fundamentals for Network Operations (XRFUND)
- Deploy, Maintain & Troubleshoot Cisco IOS XR (DMTXR)
- Cisco IOS XR IPv6 Routing for Service Providers (XIPV6R)
- Cisco XR 12000 Series Essentials (XR12K)
- 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)
- Integrating IPv6 in Service Provider & Enterprise Networks (IP6AD)

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)
- Customized Reporting for ICM & IPCC (IPCAR)
- Cisco IPCC Advanced Scripting (IPCAS)

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

Contact Information & Resources

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