Cisco CCNA

(200-301)



Intr	oduction to CCNA (200-301) with Jeremy	2	min.
1	Introduction to CCNA (200-301) with Jeremy	2	min.
Intr	oduction to CCNA (200-301) with Keith	8	min.
2	Introduction to CCNA (200-301) with Keith	8	min.
Intr	oduction to CCNA (200-301) with NetworkChuck	2	min.
3	Introduction to CCNA (200-301) with NetworkChuck	2	min.
Buil	d a Physical Cisco Lab Environment	68	min.
4	Introduction to Build a Physical Cisco Lab Environment	1	min.
5	Why Use a Physical Lab?	9	min.
6	Understanding Common Switch Models	7	min.
7	Understanding Common Router Models	6	min.
8	Understanding Device Memory Requirements	6	min.
9	Understanding Common Modules	13	min.
10	Performing Password Recovery	14	min.
11	Building a CCNA Lab Environment	12	min.
Set	Up Packet Tracer for Hands-On Cisco Practice	37	min.
12	Why You'll Benefit from Packet Tracer	4	min.
13	Getting and Installing Packet Tracer	2	min.
14	Configuring Your First PT Network	15	min.
15	Getting Physical	3	min.
16	Visualizing Network Traffic with Simple PDUs	13	min.

Set	Up Packet Tracer for Hands-On Cisco Practice	33	min.
17	Visualizing Network Traffic with Complex PDUs	9	min.
18	Replicating a Physical Rack	10	min.
19	Using Packet Tracer on your Tablet	4	min.
20	Final Challenge and Review	10	min.
Desc	cribe Network Functions and Equipment	47	min.
21	Introduction to Describe Network Functions and Equipment	1	min.
22	Primary Switch Functions	10	min.
23	Primary Wireless Access Point Functions	9	min.
24	Primary Router Functions	10	min.
25	Assembling the Network Pieces	10	min.
26	Review of Describe Network Functions and Equipment	7	min.
•	ain Network Communication Using the OSI TCP/IP Model	56	min.
27	Introduction to Explain Network Communication with the OSI Model	1	min.
28	Why We Have Two Models	4	min.
29	Application Layers	6	min.
30	Transport Layer	10	min.
31	Network Layer	5	min.
32	Data Link and Physical Layer	9	min.
33	Describing Network Communication Using the OSI	15	min.
	and TCP/IP Models		
34	Review of Explain Network Communication with the OSI Model	6	min.

Desc	ribe Common Network Architectures	72	min.
35	Introduction to Describe Common Network Architectures	1	min.
36	Two-Tier Architecture	11	min.
37	Three-Tier Architecture	5	min.
38	Spine-Leaf Architecture	11	min.
39	WAN Architecture	12	min.
40	SOHO Architecture	8	min.
41	On-Premise vs. Cloud Architecture	4	min.
42	Building a Network Architecture	13	min.
43	Review of Describe Common Network Architectures	7	min.
	ern Copper and Fiber Optic Network Cable acteristics	55	min.
44	Introduction Connect Networks with Copper and Fiber	1	min.
	Optic Cable		
45	Copper Cable	9	min.
46	Two Styles of Fiber	6	min.
47	Fiber Port Types	9	min.
48	Part 1: Connecting the CCNA Lab	8	min.
49	Part 2: Connecting the CCNA Lab	22	min.

Connect and Navigate Cisco Internetwork				
Oper	rating System (IOS)	88	min.	
50	Introduction to Connect and Navigate Cisco	1	min.	
	Internetwork Operating System (IOS)			
51	Methods of Managing Cisco Devices	9	min.	
52	Configuring a Console Connection in Windows	7	min.	
53	Configuring a Console Connection in MacOS	6	min.	
54	Answering the Epic Post-Boot Question	8	min.	
55	Using Cisco IOS Navigation Commands	11	min.	
56	Modes that Made Cisco Famous	11	min.	
57	Interface Connections and Numbering	6	min.	
58	Preparing for the Initial Configuration	24	min.	
59	Review of Connect and Navigate Cisco Internetwork	5	min.	
	Operating System (IOS)			
Crea	te a Base Configuration for Cisco Devices	33	min.	
60	Introduction to Create a Base Configuration for Cisco	1	min.	
	Devices			
61	Configuring Device Identification (Hostname and Banner)	8	min.	
62	Configuring Foundation Security and Passwords (Console,	15	min.	
	VTY, Enable Sec)			
63	Configuring IP Addresses and Enabling Interfaces	9	min.	

WEEK 5

Crea	te a Base Configuration for Cisco Devices	72	min.
64	Initial Tuning and Configuration Management	14	min.
65	Telnet and SSH Implementation	15	min.
66	Ensuring Proper Base Configurations	38	min.
67	Review of Create a Base Configuration for Cisco Devices	5	min.
Create a Base Configuration for Cisco Devices Hands-On Labs 49 m			
	•	49	min.
	•	49	min.
Han	ds-On Labs		
Han	ds-On Labs Introduction to Your Virtual Hands-on Labs	1	min.
Han 68 69	ds-On Labs Introduction to Your Virtual Hands-on Labs Basic IOS Navigation Lab	1 14	min. min.
Han 68 69 70	ds-On Labs Introduction to Your Virtual Hands-on Labs Basic IOS Navigation Lab Hostnames and MOTD Banners Lab	1 14 7	min. min. min.
Han 68 69 70 71	Introduction to Your Virtual Hands-on Labs Basic IOS Navigation Lab Hostnames and MOTD Banners Lab Configuring and Verifying Interfaces and IP Addresses Lab	1 14 7 10	min. min. min.

	eshark Fundamentals: Capturing, Viewing, Filtering Data	64	min.
75	Introducing Wireshark Fundamentals	1	min.
76	Performing an Initial Capture	10	min.
77	The OSI Model in Wireshark	11	min.
78	Learning from Idle Network Data	11	min.

79	Practical Wireshark: ARP	6	min.
80	Practical Wireshark: Rogue DHCP	8	min.
81	Practical Wireshark: DNS	7	min.
82	Practical Wireshark: Telnet	5	min.
83	Reviewing Wireshark Fundamentals	5	min.

Describe and Analyze TCP and UDP

Con	nmunication	46	min.
84	Introduction to Describe and Analyze TCP and UDP	1	min.
	Communication		
85	How TCP Starts a Session	15	min.
86	How TCP Sends Data (TCP Windowing)	9	min.
87	How TCP Ends a Session	8	min.
88	How UDP Communicates	10	min.
89	Review of Describe and Analyze TCP and UDP	3	min.
	Communication		

WEEK 7

Configure Windows, MAC, or Linux for

Network Access 33 min. Introduction to Configure Windows, MAC, or Linux for 1 min. 90 Network Access Configuring and Testing Windows Network Access 10 min. 91 Configuring and Testing MacOS Network Access 92 min. Configuring and Testing Ubuntu Linux Network Access 93 14 min. Review of Configure Windows, MAC, or Linux for Network 94 2 min. Access

	ribe Network Switch Functions and How to te Network Devices	54	min.
95	Introduction to Describe Network Switch Functions and	1	min.
	How to Locate Network Devices		
96	Connecting Devices to a Switch	7	min.
97	Switches Learning MAC Addresses	12	min.
98	Viewing and Filtering MAC Address Tables	8	min.
99	Locating Devices on a Network Switch	17	min.
100	Locating Devices Lab	7	min.
101	Review of Describe Network Switch Functions and How	2	min.
	to Locate Network Devices		
	nose Interface Status, Errors, and Cabling es on a Cisco Switch	53	min.
102	Introduction to Diagnose Interface Status, Errors, and	1	min.
	Cabling Issues on a Cisco Switch		
103	Common Copper and Fiber Physical Issues	12	min.
104	The Quick Way to See Interface Status	6	min.
105	Examining Speed and Duplex Mismatches	9	min.
106	Deep-Dive Into Interface Counters	21	min.
107	Review of Diagnose Interface Status, Errors, and Cabling	4	min.

Issues on a Cisco Switch

	cribe Power over Ethernet (PoE) abilities and Standards	29	min.
108	Introduction to Describe Power over Ethernet (PoE)	1	min.
	Capabilities and Standards		
109	How Power over Ethernet (PoE) Works	10	min.
110	Exploring PoE Standards	9	min.
111	PoE in Action on a Cisco Switch	6	min.
112	Review of Describe Power over Ethernet (PoE)	3	min.
	Capabilities and Standards		
Expl	ain IP Addressing and Subnetting Concepts	60	min.
113	Introduction to Describe Power over Ethernet (PoE)	1	min.
114	Capabilities and Standards	13	min.
115	How Power over Ethernet (PoE) Works	14	min.
116	Exploring PoE Standards	18	min.
117	PoE in Action on a Cisco Switch	11	min.
118	Review of Describe Power over Ethernet (PoE)	3	min.
	Capabilities and Standards		
Con	vert Decimal to Binary and Back	23	min.
119	Introduction to Converting from Decimal to Binary and Back	1	min.
120	Process of Binary Conversion	10	min.
121	Practicing Decimal to Binary	8	min.
122	Practicing Binary to Decimal	4	min.

Perf	orm Subnetting Based on Network		
Req	uirements	65	min.
123	Introduction to Perform Subnetting Based on Network	1	min.
	Requirements		
124	Subnetting Class C Networks Based on Network	20	min.
	Requirements		
125	Subnetting Class B Networks Based on Network	15	min.
	Requirements		
126	Subnetting Class A Networks Based on Network	10	min.
	Requirements		
127	Troublesome Networks	6	min.
128	Review of Perform Subnetting Based on Network	13	min.
	Requirements		
Perf	orm Subnetting Based on Host Requirements	37	min.
129	Introduction to Perform Subnetting Based on Host	1	min.
	Requirements		
130	Subnetting Class C Networks Based on Host	7	min.
	Requirements		
131	Subnetting Class B Networks Based on Host	4	min.
	Requirements		
132	Subnetting Class A Networks Based on Host	8	min.
	Requirements		
133	Troublesome Hosts	6	min.
134	Additional Examples of Subnetting Based on Host	11	min.
	·		

135 Introduction to Reverse Engineering Subnets and VLSM 1 mi	n.
135 Introduction to Reverse Engineering Subnets and VLSM 1 m	in.
136 Doing Subnetting Backwards 7 mi	in.
137 Practical Reverse Engineering Examples 13 m	in.
138 What is VLSM? 14 mi	in.
139 VLSM Scenario 23 m	in.

Desc	ribe IPv6 Core Addressing Concepts	86	min.
DCSC	Tibe ii vo core Maaressing concepts		•••••
140	Introduction to Describe IPv6 Core Addressing Concepts	1	min.
141	Comparing IPv4 and IPv6	9	min.
142	Binary, Decimal, and Hex	12	min.
143	Making IPv6 Addresses Shorter	7	min.
144	Types of IPv6 Addresses	21	min.
145	Designing IPv6 Addressing	13	min.
146	Configuring IPv6 Addressing	10	min.
147	Configure IPv6 Addressing Lab	7	min.
148	Review of Describe IPv6 Core Addressing Concepts	6	min.
Desi	gn a Basic Wireless Network	47	min.
149	Introduction to Converting from Decimal to Binary and Back	1	min.
150	Process of Binary Conversion	16	min.
151	Practicing Decimal to Binary	13	min.
152	Practicing Binary to Decimal	12	min.
153	Review of Describe Wireless Frequency and Design	5	min.
	Fundamentals		

•	ain VLANs and Configure VLANs		•
on a	Single Switch	86	min.
154	Introduction to Explain VLAN Concepts and Configure	1	min.
	VLANs on a Single Switch		
155	How VLANs Changed the World	15	min.
156	Routing Between VLANs	12	min.
157	Configuring VLANs on a Single Switch	22	min.
158	Configuring a Router on a Stick	20	min.
159	Configuring VLANs on a Single Switch Lab	13	min.
160	Review of Explain VLAN Concepts and Configure VLANs	3	min.
	on a Single Switch		
6			
	figure Trunking Between Switches, WAPs,	25	
and	Servers	35	min.
161	Introduction to Configure Trunking Between Switches,	1	min.
162	WAPs, Servers	18	min.
163	Understanding DTP and the Native VLAN	8	min.
164	Configuring Trunks the Right Way	8	min.
	Weird and Wacky World of VTP		

COII	figure Trunking Between Switches, WAPs,		
and	Servers	80	min.
165	Configuring VTP	12	min.
166	Limiting or Adding VLANs to Trunks	8	min.
167	Connecting Trunks to Servers, WAPs, and More	13	min.
168	Deploying VLSM in a VLAN Network	17	min.
169	Configuring VLANs, Trunking, and Routing Lab	23	min.
170	Review of Configure Trunking Between Switches, WAPs,	7	min.
	Servers, and More		
			•
Crea	te a Network Diagram with Cisco CDP and LLDP	32	min.
Crea	te a Network Diagram with Cisco CDP and LLDP Introduction to Create a Network Diagram with Cisco CDP	32	min.
	Introduction to Create a Network Diagram with Cisco CDP		
171	Introduction to Create a Network Diagram with Cisco CDP and LLDP		min.
171 172	Introduction to Create a Network Diagram with Cisco CDP and LLDP What is CDP and LLDP?	1	min.
171 172 173	Introduction to Create a Network Diagram with Cisco CDP and LLDP What is CDP and LLDP? Configuring and Tuning CDP and LLDP	1 7 9	min. min. min.
171 172 173 174	Introduction to Create a Network Diagram with Cisco CDP and LLDP What is CDP and LLDP? Configuring and Tuning CDP and LLDP Creating a Network Diagram using CDP and LLDP	1 7 9 8	min. min. min.

Desi	gn and Configure a Rapid Spanning Tree		
Prot	ocol (STP) Network	100	min.
177	Introduction to Design and Configure a Rapid Spanning	1	min.
	Tree Protocol (STP) Network		
178	What Does STP Do?	13	min.
179	Understanding STP Standards	10	min.
180	How the Root Bridge is Elected	16	min.
181	How to Determine Your STP Topology	23	min.
182	Configuring Basic STP and Verifying Results	15	min.
183	Identifying and Configuring STP Ports and Root Bridge Lab	17	min.
184	Review of Design and Configure a Rapid Spanning Tree	5	min.
	Protocol (STP) Network		
Incr	ease Network Capacity Using EtherChannel	50	min.
185	Introduction to Increase Network Capacity Using	1	min.
	EtherChannel		
186	What is EtherChannel?	13	min.
187	Configuring and Verifying EtherChannel	23	min.
188	Modifying EtherChannel Load Distribution	10	min.
189	Review of Increase Network Capacity Using	3	min.
	EtherChannel		

	igure a Basic Cisco Wireless Network g the WLC GUI	36	min.
190	Introduction to Configure a Basic Cisco Wireless Network using the WLC GUI	1	min.
191	Cisco WLC Puzzle Pieces	9	min.
192	Accessing a Cisco WLC for the First Time	10	min.
193	Base Level WLC Configuration	16	min.
194	Review of Configure a Basic Cisco Wireless Network using the WLC GUI	3	min.
Expl	ain End-To-End IP Communications	57	min.
195	Introducing End-To-End IP Communications	3	min.
196	TCP/IP Protocol Stack Review	9	min.
197	Routers and Multilayer Switches	8	min.
198	Predicting the Correct L2 and L3 Addresses	12	min.
199	Logical and Physical Topologies Lab	9	min.
200	Identifying and Correcting a Layer 2 Path	10	min.
201	Topology and Lab Strategy	5	min.
202	Reviewing End-To-End IP Communications	1	min.
Conf	igure and Verify Cisco IPv4 Static Routes	21	min.
203	Introducing IPv4 Static Routing	1	min.
204	How a Router Learns IP Routes	7	min.
205	Adding Directly Connected IPv4 Routes	13	min.

WEEK 15

Conf	igure and Verify Cisco IPv4 Static Routes	121	min.
206	Planning Static Network Routes	11	min.
207	Configuring Static IPv4 Network Routes	12	min.
208	Adding Static Host Routes	10	min.
209	Implementing Static Default Routes	7	min.
210	Floating Static Routes Overview	9	min.
211	Configuring and Verifying Static Floating Routes	11	min.
212	Static Routes using an Outbound Interface	8	min.
213	IPv4 Static Routes Review	9	min.
214	IPv4 Static Route Case Study and Lab	13	min.
215	Review of Configure and Verify Cisco IPv4 Static Routes	12	min.
216	Introducing IPv6 Static Routes	1	min.
217	IPv6 Static Route Lab Topology	5	min.
218	Adding IPv6 Directly Connected Routes	13	min.

Conf	igure and Verify Cisco IPv4 Static Routes	52	min.
219	Planning Static IPv6 Network and Default Routes	7	min.
220	Configuring Static IPv6 Default and Network Routes	11	min.
221	Floating Static IPv6 Host Routes	11	min.
222	IPv6 Static Routes Review	6	min.
223	IPv6 Static Route Case Study and Lab	15	min.
224	Review of Configure and Verify Cisco IPv6 Static Routes	2	min.

Desc	cribe Cisco Dynamic IPv4 Routing with OSPF	72	min.
225	Introducing OSPF Concepts	1	min.
226	Dynamic vs. Static Routing	11	min.
227	OSPF Path Cost	9	min.
228	OSPF Router ID (RID)	8	min.
229	OSPF Areas	6	min.
230	Wildcard Masks and Network Statements	8	min.
231	OSPF Wildcards on Clean Octet Boundaries	10	min.
232	OSPF Wildcards for Subnets	11	min.
233	DR and BDRs on Broadcast Networks	8	min.

234	Verifying OSPF Adjacencies	8	min.
235	OSPF LSAs and DRs	6	min.
236	OSPF and Point-to-Point Networks	5	min.
237	Review of Describe Cisco Dynamic IPv4 Routing with OSPF	6	min.
238	OSPF Concepts Wrap-Up	1	min.
			•
Impl	ement Cisco Dynamic IPv4 Routing with OSPF	87	min.
Impl 239	ement Cisco Dynamic IPv4 Routing with OSPF Introduction to Implement Cisco Dynamic IPv4 Routing	87	min.
•			
•	Introduction to Implement Cisco Dynamic IPv4 Routing		
239	Introduction to Implement Cisco Dynamic IPv4 Routing with OSPF	1	min.
239	Introduction to Implement Cisco Dynamic IPv4 Routing with OSPF Lab Topology Introduction	1	min.
239 240 241	Introduction to Implement Cisco Dynamic IPv4 Routing with OSPF Lab Topology Introduction Implementing Loopbacks for OSPF	1 4 10	min. min.

Describe Cisco Dynamic IPv4 Routing with OSPF

244	OSPF Link Cost Calculation	11	min.
245	OSPF Neighbor Adjacencies	9	min.
246	Default Routes in OSPF Overview	5	min.
247	Implementing a Default Route in OSPF	8	min.
248	Real World OSPF Case Study and Lab	24	min.
249	Review of Implement Cisco Dynamic IPv4 Routing with	2	min.
	OSPF		

WEEK 18

26 min.

	figure and Verify First Hop Redundancy ocols (FHRP)	46	min.
250	Introducing First Hop Redundancy Protocols (FHRPs)	1	min.
251	FHRP (First Hop Redundancy Protocols) Overview	6	min.
252	Hot Standby Router Protocol (HSRP)	9	min.
253	Virtual Router Redundancy Protocol (VRRP)	7	min.
254	Gateway Load Balancing Protocol (GLBP)	12	min.
255	Applying your FHRP Skills in a Production Network	10	min.
256	Review of Configure and Verify First Hop Redundancy	1	min.
	Protocols (FHRP)		
Inte	rpret and Describe a Cisco IP Routing Table	58	min.
257	Introduction to Interpret and Describe a Cisco IP	1	min.
	Routing Table	4	min.
258	Routing Protocol Codes	4	min.
259	Network Prefix and Mask	6	min.
260	Next Hop	8	min.
261	Administrative Distance (AD)	5	min.

262	The Routing Table Metric	5	min.
263	Gateway of Last Resort	5	min.
264	Using a Routing Table in a Production Network	14	min.
265	Review of Interpret and Describe a Cisco IP Routing Table	6	min.
Pred	ict a Cisco Router's IP Forwarding Decisions	34	min.
266	Introduction to Predict a Cisco Router's IP Forwarding	1	min.
266	Introduction to Predict a Cisco Router's IP Forwarding Decisions	1	min.
266267		1 5	min.
	Decisions	_	
267	Decisions Winning Routes of a Router's Table (Concepts)	5	min.
267 268	Decisions Winning Routes of a Router's Table (Concepts) Preferring a Better Route Due to AD Lab	5	min.
267268269	Decisions Winning Routes of a Router's Table (Concepts) Preferring a Better Route Due to AD Lab Choosing a Route Based on the Metric or Cost	5 8 6	min. min. min.

Pred	ict a Cisco Router's IP Forwarding Decisions	47	min.
272	Identifying Which Routes Include a Specific IP	13	min.
273	Route or Drop: The Prediction Game	14	min.
274	Case Study and Lab: Predicting the Router's Decisions	15	min.
275	Review of Predict a Cisco Router's IP Forwarding Decisions	5	min.
Conf	igure and Verify Cisco's Router on a Stick	31	min.
Conf 276	igure and Verify Cisco's Router on a Stick Introducing a Router on a Stick	31	min. min.
276	Introducing a Router on a Stick	1	min.
276 277	Introducing a Router on a Stick Router on a Stick Concepts	1	min. min.

Trou	bleshoot an IP Network	69	min.
281	Introducing the Troubleshooting Labs	1	min.
282	Troubleshooting Tips	4	min.
283	Troubleshooting Topology	4	min.
284	Trouble Ticket 1 with Guest Jeff Kish	19	min.
285	Trouble Ticket 2 with Guest Knox Hutchinson	12	min.
286	Trouble Ticket 3 with Guest Bart Castle	16	min.
287	Trouble Ticket 4 with Keith Barker	13	min.

	o NAT Concepts and Base Configurations: ic and Overload	100	min.
288	Introducing Cisco NAT Concepts and Base Configurations	1	min.
289	Using Different NAT Strategies	22	min.
290	Defining NAT Terminology	10	min.
291	Configuring NAT Overload	27	min.
292	Configuring Static NAT	19	min.
293	Configuring and Verifying Cisco NAT Lab	15	min.
294	Reviewing Cisco NAT Concepts and Base Configurations	6	min.
Con	figure and Verify Cisco NTP	21	min.
295	Introduction to Configure and Verify Cisco NTP	1	min.
296	What is NTP?	6	min.
297	Configuring an NTP Client	6	min.
298	Configuring an NTP Server	6	min.
299	Review of Configure and Verify Cisco NTP	2	min.

Conf	igure DHCP Server and Relay Functions	48	min.
300	Introduction to Configure DHCP Server and Relay Functions	1	min.
301	DHCP Server, Client, and Relay	11	min.
302	Configuring a Cisco DHCP Server	16	min.
303	Configuring DHCP Relay in a Cisco Network	10	min.
304	DHCP Lab	7	min.
305	Review of Configure DHCP Server and Relay Functions	3	min.
Expla	ain Common Network Services: SNMP, Syslog,		
QoS,	and TFTP-FTP	54	min.
306	Introduction to Configure DHCP Server and Relay Functions	1	min.
307	DHCP Server, Client, and Relay	18	min.
308	Configuring a Cisco DHCP Server	9	min.
309	Configuring DHCP Relay in a Cisco Network	17	min.
310	DHCP Lab	6	min.
311	Review of Configure DHCP Server and Relay Functions	3	min.
Defir	ne Key Concepts Regarding Network Security	9	min.
312	Introduction to Define Key Concepts Regarding Network	1	min.
	Security		
313	Security Overview and CIA	3	min.
314	Vulnerabilities	5	min.

Defi	ne Key Concepts Regarding Network Security	21	min.
315	Exploits	7	min.
316	Threats and Risk	4	min.
317	Mitigation Techniques and Countermeasures	8	min.
318	Review of Define Key Concepts Regarding Network Security	2	min.
Desc	ribe Security Program Elements	14	min.
319	Introducing Security Program Elements	1	min.
320	Polices as Part of a Security Program	4	min.
321	User Awareness and Training	4	min.
322	Physical Controls and Review	5	min.
Desc	ribe Elements of Secure Password Policies	24	min.
323	Introduction to Describe Elements of Secure Password Policies	1	min.
324	Password Policies	6	min.
325	Password Managers	5	min.
326	Multi-Factor Authentication (MFA)	9	min.
327	Review of Describe Elements of Secure Password Policies	3	min.

	gure Cisco Device Access Control Using Passwords	40	min.
328	Introducing Local Passwords	1	min.
329	Default Behavior for Console Access	7	min.
330	Default Behavior for Aux Access	8	min.
331	Passwords for VTY Login	8	min.
332	Storing Local Passwords	6	min.
333	Type 9 Local Passwords	2	min.
334	Local Usernames and Passwords	5	min.
335	Configure Cisco Device Access Control Using Local	3	min.
	Passwords Review		
Sumi	narize and Differentiate AAA Concepts	40	min.
336	Introducing AAA	1	min.
336337	Introducing AAA AAA Overview	1	
		_	min.
337	AAA Overview	6	min. min.
337 338	AAA Overview Building Blocks of AAA	6	min. min. min.
337338339	AAA Overview Building Blocks of AAA AAA New-Model Framework	6 6 5	min. min. min. min.

App	ly and Verify Cisco Access Control Lists	82	min.
343	Introducing Access Control Lists (ACLs) for Packet Filtering	1	min.
344	ACL Concepts	6	min.
345	Standard ACLs Concepts	6	min.
346	Standard ACLs Lab	9	min.

347	Wildcard Masks Concepts	5	min.
348	Wildcard Masks Lab	5	min.
349	Wildcard Masks for Subnets Lab	6	min.
350	Extended ACLs Concepts	4	min.
351	Extended ACLs Lab	10	min.
352	Using Named Extended ACLs	13	min.
353	ACL Production Case Study and Lab	13	min.
354	Review of Apply and Verify Cisco Access Control Lists	4	min.
Con	figure and Verify Cisco Port Security	40	min.
Con : 355	figure and Verify Cisco Port Security Introducing Port Security	40	min.
355	Introducing Port Security	1	min.
355 356	Introducing Port Security Understanding Port Security and Why we Need It	1 6	min. min.
355 356 357	Introducing Port Security Understanding Port Security and Why we Need It Port Security Defaults	1 6 4	min. min. min.
355 356 357 358	Introducing Port Security Understanding Port Security and Why we Need It Port Security Defaults Implementing Port Security on Layer 2 Interface	1 6 4 6	min. min. min.
355 356 357 358 359	Introducing Port Security Understanding Port Security and Why we Need It Port Security Defaults Implementing Port Security on Layer 2 Interface Customizing Port Security	1 6 4 6	min. min. min. min.
355 356 357 358 359 360	Introducing Port Security Understanding Port Security and Why we Need It Port Security Defaults Implementing Port Security on Layer 2 Interface Customizing Port Security Configuring Auto Errdisable Recovery	1 6 4 6 9 7	min. min. min. min. min.

Conf	igure and Verify Cisco DHCP Snooping	41	min.
363	Introducing DHCP Snooping	1	min.
364	Why is DHCP Snooping Needed	4	min.
365	The Recipe for DHCP Snooping	5	min.
366	Building and Implementing DHCP Snooping in PT	11	min.
367	Adding Source Guard to a Switch	5	min.
368	Applying DHCP Snooping in Production	12	min.
369	Review of Configure and Verify Cisco DHCP Snooping	3	min.

Conf	figure and Verify Cisco Dynamic ARP Inspection	32	min.
370	Introducing Dynamic ARP Inspection (DAI)	1	min.
371	Why is DAI Needed	3	min.
372	The Recipe and Commands for DAI	3	min.
373	Implementing DAI	5	min.
374	ARP Access Lists for Non-DHCP Devices	6	min.
375	Additional DAI Options and Features	6	min.
376	Applying DAI to the Production Network	6	min.
377	Review of Configure and Verify Cisco Dynamic ARP Inspection	2	min.
Dosc	ribe Pemote Access and Site-to-Site VPNs	20	min

Describe Remote Access and Site-to-Site VPNs Introducing VPNs Virtual Private Network (VPN) Overview Building Blocks for Cryptography Building Blocks for Cryptography Site-To-Site VPN Concepts 20 min. min. 6 min.

Desc	cribe Remote Access and Site-to-Site VPNs	26	min.
382	Verifying Site-To-Site Encryption Lab	9	min.
383	Remote-Access VPN Concepts	6	min.
384	Remote-Access VPN Client Examples	8	min.
385	Review of Describe Remote Access and Site-To-Site VPNs	3	min.

	ribe, Configure, and Verify Wireless Irity protocols	37	min.
386	Introduction to Describe, Configure, and Verify Wireless Security protocols	1	min.
387	Wireless Security Protocol Options	6	min.
388	Options for Controlling Wi-Fi Networks	4	min.
389	Implementing WPA2 PSK on a SOHO Network	6	min.
390	Planning WPA2 on a Controller-Based Wi-Fi Network	4	min.
391	Implementing WPA2 on a Controller-based Wi-Fi Network	14	min.
392	Review of Describe, Configure, and Verify Wireless Security Protocols	2	min.
Wha	t is Network Automation?	36	min.
vviia	t is Network Automation:	30	111111.
393	Introducing Network Automation	1	min.
394	What is Network Automation?	5	min.
395	Automating Network Device Deployment	11	min.
396	Automating Network Device Backup, Monitoring, and Data Collection	10	min.
397	Automating Network Troubleshooting Lab	8	min.
398	Let's Keep Automating	1	min.
Use	REST APIs and JSON	26	min.
399	You are a Network Developer	1	min.
400	API vs. SNMP vs. CLI	10	min.
401	What is a REST API?	7	min.
402	Navigating a REST API	8	min.

Use REST APIs and JSON		57	min.
403	HTTP Verbs	11	min.
404	Programming 101: Data	14	min.
405	Programming Playground Lab	6	min.
406	JSON, YAML, or XML?	6	min.
407	Interpreting JSON	11	min.
408	REST API Lab	8	min.
409	Becoming a Network Developer	1	min.
Understand Software Defined Networking (SDN) Architectures			min.
410	The Next Era of Networking is Here	1	min.
411	What is a Network Controller Anyway?	9	min.
412	The Underlay	3	min.
413	The Overlay	5	min.
414	The Fabric	7	min.
415	SD-Access Fabric - Today's Campus Reimagined	7	min.
416	Exploring DNA Center	6	min.
417	Intermission: Get to Know Postman	8	min.
418	Automating DNA Center's Northbound API	9	min.
419	Summarizing SDN	1	min.
Network Automation Tools: Ansible, Puppet, and Chef			min.
420	Introducing Ansible, Puppet, and Chef	1	min.

Configuration Management with DevOps Tools

10 min.

