

Cisco CCNA Course Syllabus
Fall/Winter 2026/27
Urban League of Greater Pittsburgh
Training Academy

Instructor:

Phone:

Email:

The Urban League of Greater Pittsburgh is pleased to announce your acceptance into the **Cisco CCNA** Certification Course! This program is an exciting first step toward a rewarding career in networking and IT, equipping you with sought-after skills and knowledge. Cisco CCNA certification can lead to job opportunities with an average salary range of \$50,000 to \$60,000 per year.

By completing this course, you'll gain a strong foundation in networking concepts, opening doors to various roles in the tech industry and setting you up for long-term success.

The course will encompass the following:

1. 16 weeks.
2. Class is offered twice a week, on Tuesdays and Thursdays from 6:00 – 8:00 pm.
3. All learning materials will be supplied.
4. The Urban League of Greater Pittsburgh covers the financial cost of the exam.
5. **Class Start date: Tuesday, November 10, 2026, 6:00 pm – 8:00 pm**

Class Policies

1. You are expected to attend every class session. Because of the subject matter, missing even one class can have a tremendous impact on your learning process. If you miss a class, it is your responsibility to obtain any notes and information presented in class. If an emergency arises that will leave you unable to attend class (illness, death in the family, etc.), please email your instructor before or at least within 24 hours after class.
2. Be on time for class. Situations come up from time to time, however, please try to be on time for class. When you are late, you miss out on important information.
- 3.) Please show your instructor and your classmates the same respect that you want to be shown. Hate speech, harassment, bullying, and any other sort of disruptive behavior will not be tolerated. Additionally, please refrain from using your phone during class.
- 4.) Classes can be taken virtually or in-person. If you are attending virtually, your camera must always be on, or it will be counted as an absence. Additionally, you must attend at least two classes in person.

Course Calendar

<u>Date</u>	<u>Lesson</u>
<u>Volume One</u>	
Monday, Nov. 2	Orientation
Tuesday, Nov. 10	Chapter One – Intro to TCP/IP Networking Chapter Two – Fundamentals of Ethernet LANs
Thursday, Nov. 12	Chapter Three – Fundamentals of WANs and IP Routing Chapter Four – Using the Command-Line Interface (CLI)
Tuesday, Nov. 17	Chapter 5 – Analyzing Ethernet LAN Switching Chapter 6 – Configuring Basic Switch Management
Thursday, Nov. 19	Chapter 7 – Configuring and Verifying Switch Interfaces Chapter 8 – Implementing Ethernet Virtual LANs
Tuesday, Dec. 1	Chapter 9 – Spanning Tree Protocol Concepts Chapter 10 – RSTP and EtherChannel Configuration
Thursday, Dec. 3	Chapter 11 – Perspective on IPv4 Subnetting Chapter 12 – Analyzing Classful IPv4 Networks
Tuesday, Dec. 8	Chapter 13 – Analyzing Subnet Masks Chapter 14 – Analyzing Existing Subnets
Thursday, Dec. 10	Chapter 15 – Operating Cisco Routers
Tuesday, Dec. 15	Chapter 16 – Configuring IPv4 Addresses and Static Routes
Thursday, Dec. 17	Chapter 17 – IP Routing in the LAN Chapter 18 – Troubleshooting IPv4 Routing
Tuesday, Jan. 5	Chapter 19 – Understanding OSPF Concepts Chapter 20 – Implementing OSPF
Thursday, Jan. 7	Chapter 21 – OSPF Network Types and Neighbors Chapter 22 – Fundamentals of IP Version 6
Tuesday, Jan. 12	Chapter 23 – IPv6 Addressing and Subnetting
Thursday, Jan. 14	Chapter 24 – Implementing IPv6 Addressing on Routers
Tuesday, Jan. 19	Chapter 25 – Implementing IPv6 Routing
Thursday, Jan. 21	Chapter 26 – Fundamentals of Wireless Networks
Tuesday, Jan. 26	Chapter 27 – Analyzing Cisco Wireless Architecture

Thursday, Jan. 28	Chapter 28 – Securing Wireless Networks Chapter 29 – Building a Wireless LAN
<u>Volume Two</u>	
Tuesday, Feb. 2	Chapter One – Introduction to TCP/IP Transport and Application Chapter Two - Basic IPv4 Access Control Lists
Thursday, Feb. 4	Chapter Three - Advance IPv4 Access Control Chapter Four - Security Architectures
Tuesday, Feb. 9	Chapter Five – Securing Network Devices Chapter Six - Implementing Switch Port Security
Thursday, Feb. 11	Chapter 7- Implementing DHCP Chapter 8 – DHCP Snooping and ARP Inspection
Tuesday, Feb. 16	Chapter 9 – Device Management Protocols Chapter 10 - Network Address Translation
Thursday, Feb. 18	Chapter 11 – Quality of Services (QOS) Chapter 12 - Miscellaneous IP Services
Tuesday, Feb 23	Chapter 13 – Lan Architecture Chapter 14 – Wan Architecture
Thursday, Feb 25	Chapter 15 – Cloud Architecture Chapter 16 – Introduction to Controller-Based Networking
Tuesday, March 2	Chapter 17- Cisco Software-Defined Access (SDA) Chapter 18 – Understand Rest and JSON
Thursday, March 4	Chapter 19 – Understand Ansible, Puppet, and Chef Chapter 20 – Review of Volume 2
Tuesday, March 9	Review of Volume One and Two