# Alliance: 2020 Technologies Training

The Alliance
for Employee Growth and Development, Inc.
Cooperative Labor/Management Venture

| | Fiber Track | VoIP Track | Wireless Track | Cloud Track | Network Track |
|---|---|---|---|---|---|
| Level 4 | **FOA** CFOS/H | **Cisco** CCNP Collaboration | **Cisco** CCNP Wireless | **Microsoft** MCSE Private Cloud<br>**Cisco** CCNA Cloud | **Cisco** CCNP Routing & Switching |
| Level 3 | **FOA** CFOS/O<br>**FOA** CFOS/D | **Cisco** CCNA Collaboration<br>**Cisco** CCENT | **Cisco** CCNA Wireless<br>**Cisco** CCENT | **Cisco** CCNA Data Center<br>**CompTIA** Cloud+ | **Cisco** CCNA Routing & Switching<br>**Cisco** CCENT |
| | | **CompTIA Security+** Develop a mastery Infrastructure Communication Security Concepts including , Cryptography and Operational / Organizational Security (40 hrs) | | | |
| Level 2 | **FOA** CFOS/T<br>**FOA** CFOS/C<br>**FOA** CFOS/S | **SIP School** SSCA -or- SSVVP | **CWNP** CWNA<br>**CWNP** CWTS | **Alliance** Cloud Implementation Technology<br>**Microsoft** MTA Server Admin Fundamentals -or- **CompTIA** Linux+ | **Alliance** MPLS<br>**CompTIA** Mobility+ |
| | | **TIA Convergence Network Technology CTP** Develop competency in the convergence of data, voice, and video wireless network services (32 hrs) | | | |
| Level 1 | **FOA** CFOT<br>**Alliance** Fiber Operations | **TIA** VoIP Essentials | **Alliance** Wireless Technologies | **Alliance** SDN-Cloud Implementation | **CompTIA** Network+<br>**Alliance** Metro Ethernet |

hover over for more details

Data Center

Cisco CCNA Service Provider
Cisco CCNP Service Provider

**Foundation Skills**
- Required for All Tracks -

**Alliance** Basic Telecommunication Technologies (BTT) → **Microsoft** MTA Networking → **Alliance** Network Transport Technologies

Start your 2020 training by completing the three foundation courses. Then move to the track of your choice.

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## Foundation

Alliance
**Basic Telecommunication Technologies (BTT)**
Gain a solid understanding of telecommunications in this introductory course. Bust the buzzwords, demystify the jargon, and understand how it fits together. (12 hrs)

Microsoft
**Microsoft Technology Associate (MTA) Networking**
Develop foundation skills in Network Infrastructure, Network Hardware, and Protocols and Services. (32 hrs)

Alliance
**Network Transport Technologies**
Course provides instruction leading to enhanced skills in network transport with descriptions of OSI Layer 0-3, transport standards, hardware interfaces, and TDM to IP migration. (16 hrs)

## Fiber Track

Alliance
**Fiber Operations**
Provides a foundation and solid understanding about optical transmission characteristics and transport methodology and how it will affect modern data networks. Primary focus is centered on the development of knowledge level understanding of terminology and processes associated with optical technologies. (8 hrs)

FOA
**CFOT**
Develop a practical understanding of fiber optic communication systems and fiber techniques. (40 hrs)

FOA
**CFOS/S**
Become proficient in installing and making mechanical and fusion splices. (24 hrs)

FOA
**CFOS/C**
Develop skills in fiber optic termination using various connector styles and procedures. (24 hrs)

FOA
**CFOS/T**
Develop the skills to test fiber splices and connectors accurately and troubleshoot faults using a variety of testing equipment. (24 hrs)

FOA
**CFOS/D**
Focuses on the unique aspects of fiber optic design within the context of complete communications systems or construction projects. (24 hrs)

FOA
**CFOS/O**
Develop skills related to networks connected by outside fiber optic cabling such as; underground, direct-buried, aerial, or underwater. (24 hrs)

FOA
**CFOS/H**
Become proficient in Fiber To The Home architecture and advantages/disadvantages of each and types of components necessary to complete a FTTx fiber segment. (24 hrs)

## VoIP Track

Alliance
**VoIP Essentials**
Develop the skills to utilize architecture and implement Video and Voice over Internet Protocol. (12 hrs)

SIP School
**SSCA**
Develop expertise implementing VoIP applications through SIP messaging Servers, Security, SIP Trunking, troubleshooting SIP, SIP in Unified Communications (40 hrs)

SIP School
**SSVVP**
Develop a foundation in networking and the application of Voice and Video over IP utilizing IP networks (20 hrs)

Cisco
**CCENT**
Develop operational knowledge of IP Data Networks purpose and functions by understanding the purpose and basic operation of the protocols in the OSI and TCP/IP models in LAN Switching Technologies and Ethernet networks using IP Routing technologies and services (40 hrs)

Cisco
**CCNA Collaboration**
Develop and advance collaboration and video skills in line with the convergence of voice, video, data and mobile applications. (104 hrs)

Cisco
**CCNP Collaboration**
Develop advanced collaboration skills designing, deploying, configuring, and troubleshooting Cisco Collaboration and Unified communications applications, devices and networks. (160 hrs)

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## Wireless Track

Alliance
**Wireless Tech**
Develop core Wireless technologies skills supporting IP networks (8 hrs)

CWNP
**CWTS**
Build knowledge of the fundamentals of RF behavior, basic technologies WLANs, implementation and installation of wireless components (24 hrs)

CWNP
**CWNA**
Develop skills in RF behavior defined by IEEE 802.11 Regulations and Standards, Protocols and Devices, Network Implementation, Network Security, and RF Site Surveys (40 hrs)

Cisco
**CCENT**
Develop operational knowledge of IP Data Networks purpose and functions by understanding the purpose and basic operation of the protocols in the OSI and TCP/IP models in LAN Switching Technologies and Ethernet networks using IP Routing technologies and services (40 hrs)

Cisco
**CCNA Wireless**
CCENT Prerequisite. Describe basics of spread spectrum technology various wireless technologies in relationship to standards and certifications based on WLAN RF principles and networking technologies and topologies (40 hrs)

Cisco
**CCNP Wireless**
Master skills needed for designing, implementing, and operating Cisco Wireless networks and mobility infrastructures. (160 hrs)

## Cloud Track

Alliance
**SDN - Cloud Implementation**
Provides a foundation and solid understanding about Software Defined Networking and how it will affect modern data networks. Primary focus is centered on the development of knowledge level understanding of terminology and processes associated with SDN technologies. (8 hrs)

Microsoft
**MTA Server Admin Fundamentals**
Develop an understanding server roles, performance management, installation, maintenance including Active Directory concepts and network data storage management (32 hrs)

CompTIA
**Linux+**
Develop an understanding of Linux system architecture, shells, commands, file system structure, and security (40 hrs)

Alliance
**Cloud Implementation Technology**
Build the expertise in Cloud technology through the understanding of Software-defined networking (SDN), Network Functions Virtualization (NFV), Cisco Open stack and other techniques in cloud virtualization (24 hrs)

CompTIA
**Cloud+**
Processional knowledge development in Cloud concepts and virtualized models by contrasting cloud services and delivery models through virtualized management using hypervisor types and virtual machines in various storage technologies in a secure business community. (40 hrs)

Cisco
**CCNA Data Center**
Develop knowledge of the Cisco Unified Computing System utilizing server virtualization software and operating systems (72 hrs)

Cisco
**CCNA Cloud**
Job focused certification that helps Cloud engineers, Cloud Administrators, and Network Engineers to develop, advance, and validate their cloud skill set. (80 hrs)

Microsoft
**MCSE Private Cloud**
Prove your expertise in managing and implementing Microsoft private cloud computing technologies. (80 hrs)

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## Network Track

Alliance

**Metro Ethernet**

Overview of carrier Ethernet technologies, the Metro Ethernet Forum specifications for services and how these can be delivered over MPLS core networks (12 hrs)

CompTIA

**Network+**

Develop the skills necessary to configure networks and resolve problems related to cables, wireless connections, protocols, and applications. (40 hrs)

CompTIA

**Mobility+**

Develop an understanding of mobile device management, troubleshooting, security, and network infrastructure while mitigating risks and threats. (40 hrs)

Alliance

**MPLS**

Develop an understanding of the service provider and features of MPLS and MPLS labeling in a peer-to-peer architecture with routing and packet forwarding using Cisco IOS command syntax and discuss MPLS Traffic Engineering (16 hrs)

Cisco

**CCENT**

Develop operational knowledge of IP Data Networks purpose and functions by understanding the purpose and basic operation of the protocols in the OSI and TCP/IP models in LAN Switching Technologies and Ethernet networks using IP Routing technologies and services (40 hrs)

Cisco

**CCNA Routing & Switching**

Develop expertise in enhanced LAN Switching and IP routing Technologies and IP Services while identifying and correct common WAN problems (40 hrs)

Cisco

**CCNP Routing & Switching**

Master the skills needed to plan, implement, verify and troubleshoot local and wide-area enterprise networks and work collaboratively with specialists on advanced security, voice, wireless and video solutions. (120 hrs)

Cisco

**CCNA Service Provider**

This topic provides insight to c networking technologies deployed in the service provider network, including the role of carrier-class equipment utilizing the IP Next-Generation Network (IP NGN) architecture. (80 hrs)

Cisco

**CCNP Service Provider**

Master the skills needed to deliver a scalable carrier-grade infrastructure capable of rapid expansion to support ongoing introduction of new managed services and other customer requirements. (152 hrs)