

Networking

Networking

Networking Essentials

- Networking Basics
- Networking Devices and Initial Configuration
- Network Addressing and Basic Troubleshooting
- Network Support and Security

CCNA: Introduction to Networks

CCNA: Switching, Routing, and Wireless Essentials

CCNA: Enterprise Networking, Security, & Automation

CCNP Enterprise: Core Networking

CCNP Enterprise: Advanced Routing

Automation

DevNet Associate

Workshop: Model-Driven Programmability

Cybersecurity

Introduction to Cybersecurity

Cybersecurity Essentials

- Endpoint Security
- Network Defense
- Cyber Threat Management

CyberOps Associate

Network Security

Ethical Hacker

Data Science

Introduction to Data Science

Data Analytics Essentials

Operating Systems & IT

Computer Hardware Basics

Operating System Basics

IT Essentials

Linux Unhatched

Linux Essentials

Linux I

Linux II

Programming

PCAP: Programming Essentials in Python

- Python Essentials 1
- Python Essentials 2

JavaScript Essentials 1

CLA: Programming Essentials in C

CPA: Programming Essentials in C++

CLP: Advanced Programming in C

CPP: Advanced Programming in C++

Workshop: Experimenting with REST APIs

Digital Literacy

Get Connected

Introduction to IoT and Digital Transformation

Professional Skills

English for IT

English for IT 1
English for IT 2

Core Skills

Engaging Stakeholders for Success

Entrepreneurship

Discovering Entrepreneurship

Practice

Cisco Packet Tracer

Getting Started with Cisco Packet Tracer

Exploring Networking with Cisco Packet Tracer

Exploring IoT with Cisco Packet Tracer

Additional Tools

Virtual labs

Remote accessible labs

Gamification

Physical equipment

Assessments

Curriculum Portfolio Details

Course	SkillsForAll.com		NetAcad.com		Aligns to Certification or Certificate	Digital Badge	Instructor Training Required	ASC Alignment Required	Physical Equipment Required
	Self-Paced	Instructor-Led	Self-Paced	Instructor-Led					
NETWORKING									
Networking Essentials (version 3.0)		✓			✓	✓		✓	
Networking Essentials (version 2.0)			✓	✓		✓			
Networking Basics	✓	✓			✓	✓			
Networking Devices and Initial Configuration	✓	✓				✓			
Network Addressing and Basic Troubleshooting	✓	✓				✓			
Network Support and Security	✓	✓				✓			
CCNA: Introduction to Networks				✓	✓	✓	✓	✓	✓ Packet Tracer option available
CCNA: Switching, Routing, and Wireless Essentials				✓		✓	✓	✓	
CCNA: Enterprise Networking, Security & Automation				✓		✓	✓	✓	
CCNP Enterprise: Core Networking				✓	✓	✓	✓	✓	✓
CCNP Enterprise: Advanced Routing				✓	✓	✓	✓	✓	✓
DevNet Associate				✓	✓	✓	✓	✓	
Workshop: Model-Driven Programmability				✓		✓		✓	

Curriculum Portfolio Details

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	Self-Paced	Instructor-Led	Self-Paced	Instructor-Led					
CYBERSECURITY									
Introduction to Cybersecurity	✓	✓	✓	✓		✓			
Cybersecurity Essentials (version 3.0)		✓			✓	✓		✓	
Cybersecurity Essentials (version 2.0)			✓	✓		✓			
Endpoint Security	✓	✓			✓	✓			
Network Defense	✓	✓				✓			
Cyber Threat Management	✓	✓				✓			
CyberOps Associate				✓	✓	✓	✓	✓	
Network Security				✓		✓	✓	✓	✓
Ethical Hacker	✓	✓				✓			

Curriculum Portfolio Details

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	Self-Paced	Instructor-Led	Self-Paced	Instructor-Led					
DATA SCIENCE									
Introduction to Data Science	✓					✓			
Data Analytics Essentials	✓					✓			
OPERATING SYSTEMS & INFORMATION TECHNOLOGY (OS & IT)									
Computer Hardware Basics	✓					✓			
Operating System Basics	✓					✓			
IT Essentials				✓	✓	✓		✓	✓
NDG Linux Unhatched			✓						
NDG Linux Essentials			✓	✓	✓				
NDG Linux I			✓	✓	✓				
NDG Linux II			✓	✓	✓				

Curriculum Portfolio Details

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	Self-Paced	Instructor-Led	Self-Paced	Instructor-Led					
PROGRAMMING									
PCAP: Programming Essentials in Python			✓	✓	✓				
Python Essentials 1	✓				✓	✓			
Python Essentials 2	✓				✓	✓			
JavaScript Essentials 1	✓		✓	✓	✓	✓			
CLA: Programming Essentials in C				✓	✓				
CLP: Advanced Programming in C				✓	✓				
CPA: Programming Essentials in C++			✓	✓	✓				
CPP: Advanced Programming in C++				✓	✓				
Workshop: Experimenting with REST APIs				✓				✓	
DIGITAL LITERACY									
Get Connected			✓	✓					
Introduction to IoT and Digital Transformation	✓					✓			

Curriculum Portfolio Details

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	Self-Paced	Instructor-Led	Self-Paced	Instructor-Led					
PROFESSIONAL SKILLS									
English for IT 1	✓				✓	✓			
English for IT 2	✓					✓			
Engaging Stakeholders for Success	✓	✓				✓			
Discovering Entrepreneurship	✓	✓				✓			
PRACTICE									
Getting Started with Cisco Packet Tracer	✓					✓			
Exploring Networks with Cisco Packet Tracer	✓								
Exploring IoT with Cisco Packet Tracer	✓								

Course Overview

Networking Essentials provides learners with a broad foundational understanding of networking. It is suitable for anyone interested in a career in IT, or a related career. This course provides an engaging, self-paced learning experience using Packet Tracer simulation, interactive activities, and learning everyday devices found at home.

Benefits

Learners develop a foundational understanding of the high-level network architecture and how a network operates.

Prepare for Careers

- ✓ Gain the skills needed for entry-level job, internship, and apprenticeship roles, such as Network Support Technician, Entry-level Help Desk Technician, and IT Support Specialist

Course Details

Target Audience: High school, secondary and 2-year college vocational students, IT and non-IT fields university students, career changers

Estimated Time to Completion: 65 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 39 modules
- ✓ 48 practice labs
- ✓ 160+ interactive activities, videos, & quizzes
- ✓ 15 module exams
- ✓ 1 final exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Support Technician (CCST) Networking

Recommended next certification: Cisco Certified Network Associate (CCNA) or CyberOps Associate



Requirements

- ASC Alignment: Required
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Networking Basics

Course Overview

This course covers the foundation of networking and network devices, media, and protocols. The learner will observe data flowing through a network and basic device configuration to connect to networks.

Benefits

Teaching your students basic networking concepts is essential for developing IT skills and prepares them for a wide variety of IT career paths.

Explore Opportunities in Technology

- ✓ Configure a wireless router and wireless host to connect to the internet
- ✓ Teach how protocols, devices, and media enable communication on Ethernet networks
- ✓ Demonstrate how IP addresses enable network communication
- ✓ Create a simple LAN
- ✓ Use application layer services to accomplish real-world tasks.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 25 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 17 modules and 13 practice labs
- ✓ Interactive activities and quizzes
- ✓ 1 final test

Course Recognitions: Digital Badge

Certification Alignment: This course is part of the Junior Cybersecurity Analyst Career Path and Network Technician Career Path which align to the CCST Cybersecurity and CCST Networking Certifications.

Recommended Next Course:
Networking Devices and Initial Configuration



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Networking Devices and Initial Configuration

Course Overview

This course teaches intermediate knowledge and skills for networking by covering basic concepts and skills needed to build a home office network and a small office network.

Benefits

By teaching the characteristics and benefits of Cloud and Virtualization technologies, your students develop skills to calculate an IP addressing scheme and configure Cisco devices to create a small network.

Explore Opportunities in Technology

- ✓ Teach the characteristics of Virtualization and Cloud services.
- ✓ Explain how Ethernet operates in a switched network.
- ✓ Show how routers use network layer protocols and services.
- ✓ Demonstrate how the TCP protocol guarantees data delivery.
- ✓ Configure a simple computer network using Cisco devices.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 25 hours

Prerequisites: Networking Basics or equivalent knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- ✓ 12 modules and 17 practice labs
- ✓ Interactive activities and quizzes
- ✓ 1 final test

Course Recognitions: Digital Badge

Certification Alignment: This course is part of the Junior Cybersecurity Analyst Career Path and Network Technician Career Path which align to the CCST Cybersecurity and CCST Networking Certifications.

Recommended Next Course:
Network Addressing and Basic Troubleshooting

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Network Addressing and Basic Troubleshooting

Course Overview

This course examines the Physical layer in depth, topologies at the Data Link layer, and basic routing at the Network layer. It dives deep into static and dynamic IPv4 and IPv6 addressing and address resolution.

Benefits

Teach your students the components and functionality of Cisco switches and routers, troubleshooting methodologies for some of the most common networking issues, and an overview of providing customer support preparing them for a wide variety of IT careers paths.

Explore Opportunities in Technology

- ✓ Explain the features and functions of the physical, data link, and network layers.
- ✓ Develop a networking scheme for a small network based on stated requirements.
- ✓ Explain the operation of Cisco switches and routers.
- ✓ Teach basic troubleshooting for network connectivity issues.

Course Details

Target Audience: Secondary school and college/university students, general audience

Estimated Time to Completion: 18 hours

Prerequisites: Networking Devices and Initial Configuration or equivalent knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- ✓ 8 modules and 8 practice labs
- ✓ Interactive activities and quizzes
- ✓ 1 final test

Course Recognitions: This course is part of the Network Technician Career Path which aligns to the CCST Networking Certification.

Recommended Next Course:

CCNA: Switching, Routing and Wireless Essentials

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Course Overview

This course covers general IT and Network Support, delves into Cybersecurity Threats, Vulnerabilities, and Attacks. The learner will observe essential configuration steps to ensure secure user access on a network.

Benefits

This course builds learners' networking knowledge and can lead to exciting career opportunities in technology.

Explore Opportunities in Technology

- ✓ Teach effective troubleshooting methodologies and help desk best practices.
- ✓ Explain common threats, vulnerabilities, and attacks on end points.
- ✓ Show how to configure secure user access on a network.

Course Details

Target Audience: High school, secondary and 2-year college vocational students, IT and non-IT fields university students, career changers

Estimated Time to Completion: 12 hours

Prerequisites: Network Addressing and Basic Troubleshooting course or equivalent knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- ✓ 3 modules and 10 practice labs
- ✓ Interactive activities and quizzes
- ✓ 1 final test

Course Recognitions: Digital Badge

Certification Aligned: This course is part of the Network Technician Career Path which aligns to the Cisco Certified Support Technician (CCST) Networking certification.

Recommended next certification:

Cisco Certified Network Associate (CCNA), or CyberOps Associate

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

CCNA Curriculum

Curriculum Overview

The courses in the CCNA Version 7.0 curriculum help students develop a comprehensive foundation for designing, securing, operating, and troubleshooting modern computer networks, on the scale from small business networks to enterprise networks, with an emphasis on hands-on learning and essential career skills like problem solving and collaboration.

Career Prep

By the end of the CCNA course series, students gain practical, hands-on experience preparing them for the CCNA certification exam and career-ready skills for associate-level roles in the Information & Communication Technologies (ICT) industry.

Learning Components

- Series of 3 courses:
 1. Introduction to Networks (ITN)
 2. Switching, Routing, and Wireless Essentials (SRWE)
 3. Enterprise Networking, Security, and Automation (ENSA)
- Hands-on labs and Cisco Packet Tracer network simulation activities
- Videos, activities, and quizzes reinforce learning
- Exams to measure learning outcomes
- Assessment features to ensure exam security and integrity

Features



Target Audience: Students interested in pursuing an IT-related career

Prerequisites: None. Vocational students often take IT Essentials or equivalent knowledge prior to CCNA

Course Delivery: Instructor-led

Estimated Time to Complete: 200 hours

Recommended Next Course: CCNP Enterprise Core, CCNA CyberOps, DevNet Associate, Python or Emerging Tech Workshops



Certification
Aligned

CCNA: Introduction to Networks

Course Overview

The first course in the CCNA curriculum introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks - including IP addressing and Ethernet fundamentals.

Benefits

By the end of the course, students can build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security, and perform basic configurations for routers and switches.

Learning Components

- 17 modules
- 24 hands-on labs
- 31 Cisco Packet Tracer activities
- 36 videos
- 10 syntax checkers
- 13 interactive activities
- 64 CYU quizzes
- 17 module exams
- 6 module group exams
- 1 final exam



Features

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering

Prerequisites: None

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA: Switching, Routing, and Wireless Essentials

CCNA: Switching, Routing, and Wireless Essentials

Course Overview

The second course in the CCNA curriculum focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts.

Benefits

Students learn key switching and routing concepts. They can perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN.

Learning Components

- 16 modules
- 14 hands-on labs
- 31 Cisco Packet Tracer activities
- 15 videos
- 19 syntax checkers
- 1 interactive activity
- 36 CYU quizzes
- 16 module exams
- 5 module group exams
- 1 final exam



Features

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering

Prerequisites: None

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA: Enterprise Networking, Security, and Automation

CCNA: Enterprise Networking, Security, and Automation

Course Overview

The third CCNA course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks – including wide area network (WAN) technologies & quality of service (QoS) mechanisms for secure remote access, along with software-defined networking, virtualization, & automation concepts supporting network digitization.

Benefits

Students gain skills to configure and troubleshoot enterprise networks, and learn to identify and protect against cybersecurity threats. They are introduced to network management tools and learn key concepts of software-defined networking, including controller-based architectures and how application programming interfaces (APIs) enable network automation.

Learning Components

- 14 modules
- 12 hands-on labs
- 29 Cisco Packet Tracer activities
- 32 videos
- 13 syntax checkers
- 2 interactive activities
- 53 CYU quizzes
- 14 module exams
- 5 module group exams
- 1 final exam
- 1 practice exam for CCNA certification exam



Features

Target Audience: 2-year and 4-year college students in Networking or Engineering

Prerequisites: None

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNP Enterprise Core

CCNP Enterprise Curriculum

Curriculum Overview

The two courses in this CCNP Enterprise version 8.0 curriculum provide students with knowledge and skills needed to configure, operate and troubleshoot large scale enterprise networks. The courses cover a broad range of routing, switching and wireless topics along with security best practices used in software-driven digital networks.

Career Prep

By the end of the CCNP course series, students gain practical, hands-on experience preparing them for the CCNP Enterprise certification exams and career-ready skills for professional-level roles in the Information & Communication Technologies (ICT) industry.

Learning Components

- Series of 2 courses:
 1. CCNP Enterprise: Core Networking (ENCOR)
 2. CCNP Enterprise: Advanced Routing (ENARSI)
- Hands-on labs and optional Cisco Packet Tracer network simulation activities
- Videos and quizzes reinforce learning
- Exams to measure learning outcomes
- Assessment features to improve exam security

Features



Target Audience: Students interested in pursuing a career as a Network Engineer or Systems Engineer

Prerequisites: None required but CCNA level knowledge is needed for success

Course Delivery: Instructor-led

Estimated Time to Complete: 140 hours total (70 hours per course)

Recommended Next Course: Broaden skills with DevNet Associate, CyberOps Associate, Python or Emerging Tech Workshops



Certification
Aligned

CCNP Enterprise: Core Networking (ENCOR)

Course Overview

This first course in the 2-course CCNP Enterprise series covers switching, routing, wireless, and related security topics, along with the technologies that support software-defined, programmable networks.

Benefits

This course directly prepares for the Cisco Enterprise Network Core Technologies exam (350-401 ENCOR) to earn an Enterprise Core Specialist certification.

Completion of both courses in the CCNP Enterprise course series prepares for the CCNP Enterprise certification exam.

Learning Components

- 29 chapters
- 41 hands-on labs
- 24 Packet Tracer activities (optional)
- 7 videos
- 29 Chapter quizzes
- 11 Chapter-Group exams
- 1 Final exam
- 1 practice certification exam



Features

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering

Recommended Preparation: CCNA or equivalent knowledge & skills

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNP Enterprise: Advanced Routing (ENARSI)

CCNP Enterprise: Advanced Routing (ENARSI)

Course Overview

This second of the 2-course CCNP Enterprise series focuses on implementation and troubleshooting of advanced routing and redistribution for OSPF, EIGRP and BGP along with VPN technologies, infrastructure security and management tools used in Enterprise networks.

Benefits

This course directly prepares for the Cisco Enterprise Advanced Routing and Services concentration exam (300-410) to earn the Enterprise Advanced Infrastructure Implementation Specialist certification.

By also passing the core exam (350-401 ENCOR) you will earn the CCNP Enterprise certification.

Learning Components

- 23 chapters
- 40 hands-on labs
- 20 Packet Tracer activities (optional)
- 2 videos
- 23 Chapter quizzes
- 6 Chapter-Group exams
- 1 Final exam
- 2 Skills assessments
- 1 practice certification exam



Features

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering

Recommended Preparation: CCNP Enterprise: Core Networking or equivalent knowledge & skills

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

DevNet Associate 1.0

Course Overview

This course introduces the methodologies and tools of modern software development, applied to the IT and Network operations. It covers a 360 view of the domain including microservices, testing, containers and DevOps, as well as securely automating infrastructures with Application Programming Interfaces (APIs).

Benefits

Gain practical, relevant, hands-on lab experience, including programming in Python, using GIT and common data formats (JSON, XML and YAML), deploying applications as containers, using Continuous Integration/Continuous Deployment (CI/CD) pipelines and automating infrastructure using code.

Prepare for Careers

- ✓ Develop skills for entry-level software development and infrastructure automation jobs
- ✓ Prepare for DevNet Associate certification exam

Course Details

Target Audience: Secondary vocational students, 2-year and 4-year college students and participants of coding bootcamps

Estimated Time to Completion: 70 hours

Recommended Preparation:

Coding skills, equivalent to:

PCAP: Programming Essentials in Python

Fundamental skills of networking, equivalent to:

CCNA: Introduction to Networks

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 8 Modules with 6 Videos, 23 Hands-on Labs and 5 Cisco Packet Tracer Activities
- ✓ 8 Quizzes, 8 Module Exam, Practice Final Exam, Final Exam, Skills Based Assessment
- ✓ Practice Exam for DEVASC Certification

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge, Cert Voucher

Recommended Next Course:

CCNA, CCNP or CyberOps Associate



Infrastructure Automation

Requirements & Resources

- **ASC Alignment Required:** Yes
- **Instructor Training Required:** Yes
- **Physical Equipment Required:** No, only using Virtual Machines on the student's computer
- **Voucher Availability:** Yes



Certification Aligned

[Cisco Certified DevNet Associate](#)

Emerging Technologies Workshop

Model-Driven Programmability

Workshop Overview

With the increasing size of the modern network and the frequency of changes required by the business, managing and automating networks via a Command Line Interface (CLI) is ineffective and error prone. A new approach, using Model Driven Programmability, enables transactional changes, by defining standardized device models and APIs. This workshop introduces students to device level programmability competencies, to automate configuration and management tasks using standardized YANG device models and using the RESTCONF and NETCONF device level APIs.

Benefits

Every networking student will benefit in grasping the importance of YANG, as language to “model” a networking device, combined with the robustness of the RESTCONF and NETCONF device level programmability APIs. Students will also experiment and develop Python scripts to manage networking devices at scale, using the Model Driven Programmability approach.

Learning Outcomes

- Understand the value, set-up and use of software concepts and tools relevant to network programmability (Python scripting, Git, JSON, Postman, APIs).
- Describe a different approach to software-defined networking (SDN), including central application policy control.
- Use Python with combination of RESTCONF and NETCONF APIs to retrieve and update the device's configuration
- Understand the value of joining professional communities of practice to working in the network programmability domain. Participate in Cisco DevNet, GitHub, and Stack Overflow.



Features

Target Audience: Vocational, 2-year and 4-year College, 4-year University students

Prerequisites: Basic programming, CCNA: SRWE level networking skills

Languages: English

Course Delivery: Instructor-led

Equipment: Virtual Cisco SW Router, DevNet Sandbox, or Real Equipment with Cisco ISR4k routers

Estimated Time to Complete: 8 hours

Recommended Insertion Points: After CCNA: SRWE, with CCNA Security or CCNP ENCOR

Instructor Training: Required, self-paced option available

Introduction to Cybersecurity

Course Overview

This course explores cyber trends, threats, and staying safe in cyberspace, and protecting personal and company data.

Benefits

Today's interconnected world makes everyone more susceptible to cyber-attacks. Teach how to protect personal data and privacy online, in social media, and why more and more IT jobs require cybersecurity awareness and understanding.

Explore Opportunities in Technology

- ✓ Builds cybersecurity understanding for a secure and safe digital life
- ✓ Explores many career possibilities cybersecurity skills offers

Course Details

Target Audience: Secondary and 2-Year college students, general audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 5 modules and 7 practice labs
- ✓ Interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Recommended Next Course:
Networking Essentials or Cybersecurity Essentials

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Requirements

- ASC Alignment Required: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Cybersecurity Essentials

Course Overview

A course designed for learners interested in pursuing a career in cybersecurity. It prepares for a Junior Cybersecurity Analyst role by equipping learners with job skills across three domains: Endpoint Security, Network Defense, and Cyber Threat Management.

Benefits

Cybersecurity skills are heavily sought in the job market. Students can apply for entry-level junior cybersecurity analyst roles or continue learning toward associate and professional positions.

Prepare for Careers

- ✓ Gain the skills needed for entry-level job, internship, and apprenticeship roles, such as Junior Cybersecurity Analyst, Cybersecurity Technician, Cybersecurity Specialist, and Tier 1 Help Desk Support.

Course Details

Target Audience: High school, secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 70 hours

Prerequisites: Foundational understanding of networking and network device configuration

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 27 modules and 75 practice activities
- ✓ Interactive activities and quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Certification Alignment: This course aligns with the CCST Cybersecurity certification.

Recommended Next Course: CyberOps Associate



Requirements

- ASC Alignment: Recommended
- Instructor Training: Recommended
- Basic Equipment: Computer and Internet
- Additional Equipment Required: No

Course Overview

This course covers how to assess the network, operating systems, and endpoints for vulnerabilities, and how to secure the network. It also covers skills to maintain the integrity, confidentiality, and availability in the network and data.

Benefits

The demand for security professionals continues to grow. Teach the foundational knowledge used in the workplace as a Cybersecurity Technician.

Prepare for Careers

- ✓ Develop a cybersecurity foundation
- ✓ Offer the next step in exploring the many career possibilities in cybersecurity
- ✓ Build skills securing a network all the way to the edge, including hardware, software, and media

Course Details

Target Audience: Secondary and 2-year college vocational students; Reskilling to find a job in cyber

Estimated Time to Completion: 27 hours

Recommended Preparation: Introduction to Cybersecurity

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 10 modules
- ✓ 31 Labs and Cisco Packet Tracer activities
- ✓ 40+ interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Certification Alignment: This course is part of the Junior Cybersecurity Analyst Career path which aligns to the CCST Cybersecurity Certification

Recommended Next Course: Network Defense

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer / Mobile Device and Internet
- Additional Equipment Required: No

Course Overview

This course covers different methods to monitor the network and how to evaluate security alerts. It delves into tools and techniques used to protect the network, including access control, firewalls, cloud security, and cryptography.

Benefits

The demand for security professionals continues to grow. Gain the intermediate knowledge used in the workplace as a Cybersecurity Technician.

Prepare for Careers

- ✓ Builds a cybersecurity foundation
- ✓ Explores the many career possibilities in cybersecurity
- ✓ Develops skills to create a layered defense-in-depth cybersecurity strategy

Course Details

Target Audience: Secondary and 2-year college vocational students; Reskilling to find a job in cyber

Estimated Time to Completion: 27 hours

Recommended Preparation: Introduction to Cybersecurity and Endpoint Security

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 11 modules
- ✓ 29 Labs and Cisco Packet Tracer activities
- ✓ 58 + interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Certification Alignment: This course is part of the Junior Cybersecurity Analyst Career Path and aligns with the CCST Cybersecurity certification

Recommended Next Course: Cyber Threat Management



Requirement

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer / Mobile Device and Internet
- Additional Equipment Required: No

Cyber Threat Management

Course Overview

This course explores governance in cybersecurity and threat management. Learn to develop policies and ensure your organization complies with ethics standards and legal and regulatory frameworks.

Benefits

The demand for security professionals continues to grow. Develop advanced knowledge you will use in the workplace as a Cybersecurity Technician.

Prepare for Careers

- ✓ Builds a cybersecurity foundation
- ✓ Explores the many career possibilities in cybersecurity
- ✓ Develops skills for managing threats, such as how to assess a network for vulnerabilities, manage risks, and respond to security incidents

Course Details

Target Audience: Secondary and 2-year college vocational students; Reskilling to find a job in cybersecurity.

Estimated Time to Completion: 16 hours

Recommended Preparation: Introduction to Cybersecurity, Endpoint Security, and Network Defense

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 6 modules
- ✓ 16 Labs and Cisco Packet Tracer activities
- ✓ 28+ interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Certification Alignment This course is part of the Junior Cybersecurity Analyst Career Path which aligns to the CCST Cybersecurity Certification

skillsforall.com



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer / Mobile Device and Internet
- Additional Equipment Required: No

CyberOps Associate

Course Overview

This course introduces the core security concepts and skills needed to monitor, detect, analyze, and respond to cybercrime, cyberespionage, insider threats, advanced persistent threats, regulatory requirements, and other cybersecurity issues facing organizations.

Benefits

Gain practical, hands-on skills needed to maintain and ensure security operational readiness of secure networked systems.

Prepare for Careers

- ✓ Develop skills for entry-level security operations center (SOC) jobs
- ✓ Prepare for CyberOps Associate certification
- ✓ Pursue a career in cybersecurity operations, a rapidly-growing, exciting new area that spans all industries

Course Details

Target Audience: Students enrolled in technology degree programs at higher education institutions; IT professionals who wants to pursue a career in Security Operations

Estimated Time to Completion: 70 hours

Recommended Preparation: Introduction to Cybersecurity, Cybersecurity Essentials

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 28 Modules and 46+ hands-on labs
- ✓ 113 interactive activities, videos, & quizzes
- ✓ 6 Cisco Packet Tracer activities
- ✓ 1 practice certification exam

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Recommended Next Course: CCNA Security, IoT Security



Cybersecurity



Requirements & Resources

- **ASC Alignment Required:** Yes
- **Instructor Training Required:** Yes
- **Physical Equipment Required:** No (Uses Virtual Machines on the student's computer)
- **Voucher Availability:** Yes



Certification Aligned
[Cisco Certified CyberOps Associate](#)

Network Security

Course Overview

This course introduces the core security concepts and skills needed to configure and troubleshoot computer networks and help ensure the integrity of devices and data.

Benefits

Gain practical, hands-on skills to design, implement, and manage network security systems and ensure their integrity.

Prepare for Careers

- ✓ Build expertise in network security and data protection
- ✓ Develop skills for entry-level network security specialist roles
- ✓ Gain industry in-demand skills aligned with the National Institute for Standards and Technology (NIST) Cybersecurity Framework

Course Details

Target Audience: 2-year and 4-year college students in Networking or Engineering programs

Estimated Time to Completion: 70 hours

Recommended Preparation: Basic understanding of computer networks (CCNA: Introduction to Networks and CCNA: Switching, Routing, and Wireless Essentials, or equivalent)

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 22 modules and 23 practice labs
- ✓ 22 Cisco Packet Tracer activities
- ✓ 87+ interactive activities, videos, and quizzes
- ✓ 1 final exam

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Recommended Next Course: CyberOps Associate, IoT Security



Cybersecurity



Requirements & Resources

- **ASC Alignment Required:** Yes
- **Instructor Training Required:** Yes
- **Physical Equipment Required:** Yes
- **Discount Availability:** Not Applicable

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(Includes language availability)



Hands-on practice with
Cisco Packet Tracer

Ethical Hacker

Course Overview

The Ethical Hacker course prepares learners with skills to proactively discover vulnerabilities before the cybercriminals do. Learners will become proficient in the art of scoping, executing, and reporting on vulnerability assessments, while recommending mitigation strategies.

Benefits

Through the gamified narrative in the course and real-world inspired hands-on practice labs, students develop essential workforce readiness skills, laying a solid foundation in offensive security.

Prepare for Careers

- ✓ Get job-ready for Offensive Security roles such as Ethical Hacker or Penetration Tester.
- ✓ Understand the mindset and tactics of cybercriminals to strengthen your defensive security skillset.
- ✓ Gain needed skills for implementing security controls and monitoring, analyzing, and responding to current security threats.

Course Details

Target Audience: College/university students or vocational school students

Estimated Time to Completion: 70 hours

Prerequisites:

- Entry-level cybersecurity knowledge: CCST Cybersecurity certification or Cybersecurity Essentials or Junior Cybersecurity Analyst Career Path, or equivalent
- Basic programming knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- ✓ 10 modules and 34 labs
- ✓ 86 interactive practice activities and quizzes
- ✓ 1 final exam
- ✓ 1 skills-based assessment

Course Recognitions: Digital Badge

Recommended Next Course:
CyberOps Associate, Network Security



Requirements

- ASC Alignment: Recommended
- Instructor Training: Recommended
- Basic Equipment: Computer and Internet
- Additional Equipment: No

Introduction to Data Science

Course Overview

This introductory course takes learners inside the world of data science. They will learn the basics in the fields of data science, data analytics and data engineering to better understand how machine learning is shaping the future of business, healthcare, education and more.

Benefits

Data science professionals who can provide actionable insights for data-driven decisions are in high demand.

Explore Opportunities in Technology

- ✓ Develops awareness of opportunities that data analytics enable.
- ✓ Explores career opportunities in the Data Science, Analytics, Engineering and Artificial Intelligence and Machine Learning landscapes.

Course Details

Target Audience: High-school, Secondary and 2-Year college students, General audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 4 modules
- ✓ 5 practice lab activities
- ✓ 1 interactive pivot table widget
- ✓ 14 videos
- ✓ Knowledge checks and module quizzes
- ✓ Final exam

Course Recognitions: Digital Badge

Recommended Next Course: Data Analytics Essentials

skillsforall.com



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Data Analytics Essentials

Course Overview

Learners will understand how to use the fundamental tools of a data analyst, and how to transform, organize and visualize data with spreadsheet tools such as Excel. They will learn how to query data from a relational database using SQL and how to improve their data presentations using powerful business intelligence tools like Tableau. By the end of the course, they will have an analytics portfolio complete with an analysis of popular datasets, showcasing their skills in Excel, SQL and Tableau.

Benefits

Organizations all over the world recognize the value of analytics. This course teaches the tools of the trade.

Prepares for Careers

- ✓ SQL and spreadsheets are used in almost every organization globally
- ✓ Dashboarding, data visualizations and storytelling with data are highly sought after

Course Details

Target Audience: High school, secondary and 2-year college vocational students, college and university students studying IT or non-IT fields, career changers

Estimated Time to Completion: 30 hours

Prerequisites: None. Introduction to Data Science recommended

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 10 modules
- ✓ 23 practice labs
- ✓ 6 practice labs with localized widget
- ✓ 38 videos
- ✓ 56 practice opportunities
- ✓ 8 module exams
- ✓ 1 final exam

Course Recognitions: Digital Badge

Recommended Next Course: Python Essentials 1



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Computer Hardware Basics

Course Overview

This course teaches the fundamentals of computers and mobile devices by covering the basic concepts and skills needed to install components to build, repair, or upgrade personal computers.

Benefits

This course provides the learner with an engaging, foundational view of computers and mobile devices, including desktop and laptop computers, and other mobile devices such as tablets and mobile phones.

Explore Opportunities in Technology

- ✓ Install components to build, repair, or upgrade personal computers.
- ✓ Explain the features and functions of laptops.
- ✓ Explain the features and functions of other mobile devices.

Course Details

Target Audience: Secondary, vocational, career technical school and immediate post-secondary students, general audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced

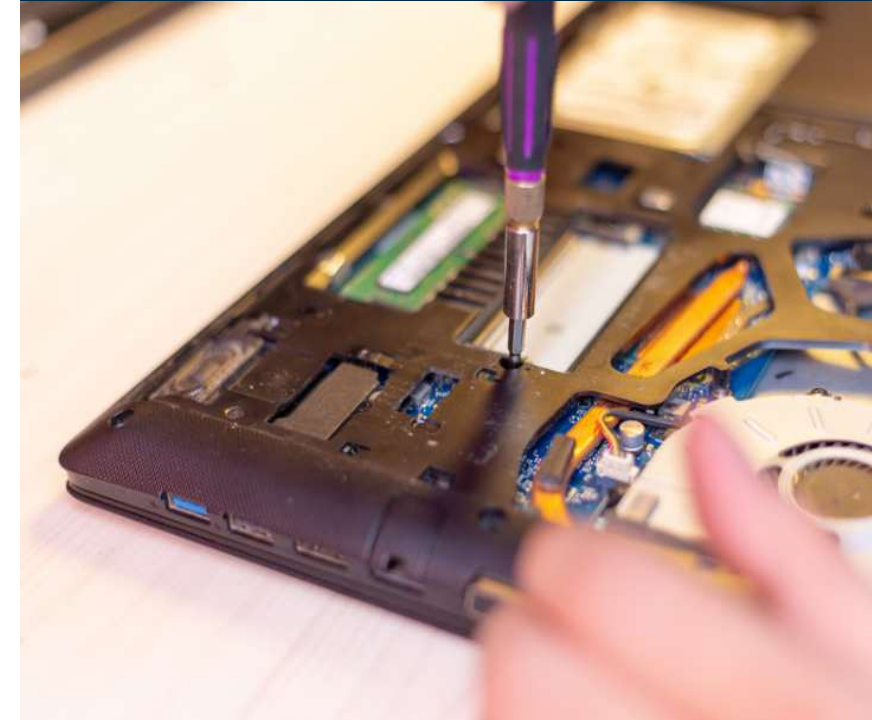
Learning Component Highlights:

- ✓ 3 modules
- ✓ Practice items, labs and quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Recommended Next Course:
Operating Systems Basics, Networking Basics

skillsforall.com



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Operating Systems Basics

Course Overview

This course teaches the fundamentals of operating systems by covering the basic concepts and skills needed to explain the purpose and characteristics of operating systems, implement basic operating system security, and explain how to configure mobile device network connectivity.

Benefits

This course provides the learner with an engaging, foundational view of operating systems and mobile device connectivity, including Windows, Linux, Android, and iOS.

Explore Opportunities in Technology

- ✓ Use Windows administrative tools.
- ✓ Implement basic Linux security.
- ✓ Explain how to configure network connectivity and email on mobile devices.
- ✓ Explain the purpose and characteristics of mobile operating systems.

Course Details

Target Audience: Secondary, vocational, career technical school and immediate post-secondary students, general audience

Estimated Time to Completion: 16 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 8 modules and 18 practice labs
- ✓ Checkpoints and quizzes
- ✓ 1 final test

Course Recognitions: Digital Badge

Recommended Next Course:

Networking Basics, Introduction to Networks

skillsforall.com



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

IT Essentials

Course Overview

IT Essentials covers fundamental computer and career skills for entry-level IT jobs. Students apply skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software.

Benefits

Learn the fundamentals of connecting computers to networks. Plus, you'll enjoy working with Cisco Networking Academy's advanced simulation tools with hands-on labs to hone your troubleshooting skills and immediately practice what you learn!

Prepare for Careers

- ✓ Develop skills for entry-level technical support roles
- ✓ Prepare for CompTIA A+ certification exam
- ✓ Build your foundation for CCNA-level courses

Course Details

Target Audience: Secondary and 2-year college vocational students

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 14 chapters and 99 practice labs
- ✓ Cisco Packet Tracer, virtual laptop, and virtual desktop learning tools
- ✓ 29+ interactive activities
- ✓ 18+ assessments throughout the course
- ✓ 1 final and 2 practice certification exams

Course Recognitions: Certificate of Completion, Digital Badge, Letter of Merit

Recommended Next Course:
CCNA: Introduction to Networking (ITN)

IT

OS & IT



Requirements & Resources

- ASC Alignment Required: Yes
- Instructor Training Required: No
- Physical Equipment Required: Yes
- Discount Availability: Not Applicable

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(Includes language availability)



Certification Aligned
[CompTIA A+ Certification](#)

NDG Linux Unhatched

Course Overview

This course covers introductory back-end operating system knowledge by teaching basic installation and configuration of Linux and introducing the Linux command line.

Benefits

Learners ease into acquiring Linux knowledge without having to commit to more than 8 total hours of self-paced learning, guided step-by-step with a series of hands-on virtual machine activities.

Explore Opportunities in Technology

- ✓ Wade into the shallow end of Linux and see whether it's for you or not
- ✓ Develop your digital basics
- ✓ Start exploring the many career possibilities these skills can open up for you

Course Details

Target Audience: Secondary and general audience new to IT

Estimated Time to Completion: 6-8 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 1 module
- ✓ 20 pages
- ✓ Built-in Linux machine with activities
- ✓ 1 assessment

Course Recognitions: Letter of Completion

Recommended Next Course:
NDG Linux Essentials

In partnership with



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OS & IT



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Not Applicable

Career Advice

[Tips for getting started in your career](#)

NDG Linux Essentials

Course Overview

This course teaches fundamentals of the Linux operating system, command line, and open source programming concepts.

Benefits

Nearly every IT job requires some Linux knowledge. Gain hands-on practice with Linux commands through the Linux virtual machine embedded in the course.

Prepare for Careers

- ✓ Develop fundamental operating system skills for entry-level IT jobs
- ✓ Prepare for LPI certificate exam
- ✓ Fulfill prerequisites to pursue more specialized IT and networking skills

Course Details

Target Audience: Secondary and 2-year college students

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 16 chapters and 13 practice labs
- ✓ Built-in virtual machine to experiment with Linux commands
- ✓ Learner-directed activities
- ✓ Chapter, midterm, and final exams

Course Recognitions: Letter of Completion

Recommended Next Course:
NDG Linux I

In partnership with



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OS & IT



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Yes



Certification Aligned

[Linux Professional Institute \(LPI\) Linux Essentials Professional Development Certificate](#)

NDG Linux I and II

Course Overview

A 2-course series for aspiring Linux system administrators. Covers performing maintenance tasks on the command line, installing and configuring a computer running Linux, and configuring basic networking, using virtual machines running Linux.

Benefits

More rigorous and comprehensive than NDG Linux Essentials, this course develops your Linux mastery. Gain hands-on practice with Linux commands through the Linux virtual machine embedded in the course.

Prepare for Careers

- ✓ Develop skills for careers in cloud computing, cybersecurity, information systems, networking, programming, software development, big data, and more
- ✓ Prepare for LPIC-1 certification exams

Course Details

Target Audience: 2-year and 4-year college students

Estimated Time to Completion: 140 hours

Recommended Preparation: NDG Linux Essentials or equivalent

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ Built-in virtual machine to experiment with Linux commands
- ✓ Practice labs and activities
- ✓ Chapter, midterm, and final exams

Course Recognitions: Letter of Completion

Recommended Next Course:
DevNet Associate

In partnership with



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OS & IT

Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Yes
- Cost: Fee for self-paced classes. Cost for instructor-led classes is determined by the institution.



Certification Aligned

[Linux Professional Institute LPIC-1](#)

PCAP: Programming Essentials in Python

Course Overview

Designed as easy to understand and beginner-friendly course focusing on various data collections, manipulation tools, logic and bit operations and creating basic REST APIs.

Benefits

Learn to design, write, debug, and run programs encoded in the Python language. No prior programming knowledge is required. The course begins with the very basics guiding you step by step until you become adept at solving more complex problems.

Prepare for Careers

- ✓ Develop fundamental programming skills
- ✓ Prepare for PCEP and PCAP certification exam
- ✓ Build your foundation to pursue more specialized networking and software development skills

Course Details

Target Audience: Secondary, 2-year and 4-year college students

Estimated Time to Completion: 75 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 8 modules of interactive instructional content
- ✓ 30+ practice labs
- ✓ Built-in online tool for labs and practice
- ✓ Quizzes, tests, and final exam

Course Recognitions: Statement of Achievement

Recommended Next Course:
DevNet Associate

In partnership with



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Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Yes



Certification Aligned

[PCEP: Certified Entry-Level Python Programmer](#)

[PCAP: Certified Associate in Python Programming](#)

Python Essentials 1

Course Overview

This course teaches in-demand skills including how to design, develop, and improve computer programs using Python.

Benefits

Used by startups and tech giants like Google, Facebook, Netflix, and more, Python with user-friendly with easy-to-read code offers endless possibilities for creating small and large-scale software projects.

Explore Opportunities in Technology

- ✓ Explores the world of computer programming and the careers it offers
- ✓ Develops coding skills using Python
- ✓ Teaches about data types, variables, I/O operations, control flow and functions

Course Details

Target Audience: Secondary and 2-Year college students, general audience

Estimated Time to Completion: 30 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 4 modules and 30 practice labs
- ✓ Interactive activities & quizzes
- ✓ 1 final project
- ✓ 1 final test

Course Recognitions: Digital Badge

Certification Aligned: PCEP: Certified Entry-Level Python Programmer certification

Recommended Next Course:
Python Essentials 2



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: No
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Developed in collaboration with

Python Essentials 2

Course Overview

This course is designed for learners who are already familiar with the essentials of Python, universal computer programming concepts like data types, containers, functions, conditions and loops, and the basics of procedural, structural, and functional programming.

Benefits

Used by startups and tech giants like Google, Facebook, Netflix, and more, Python with user-friendly, easy-to-read code offers endless possibilities for creating small and large-scale software projects.

Prepare for Careers

- ✓ Explore the world of programming
- ✓ Design, develop, and improve multi-module computer applications coded in Python
- ✓ Analyze and model real-life problems in Object-Oriented Programming categories
- ✓ Create and develop a programming portfolio

Course Details

Target Audience: Secondary and 2-Year college students, general audience

Estimated Time to Completion: 40 hours

Prerequisites: Python Essentials 1, PCEP certification, or equivalent

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 4 modules and 21 practice labs
- ✓ Interactive activities & quizzes
- ✓ 1 final exam
- ✓ PCAP certification voucher discount

Course Recognitions: Digital Badge

Certification Aligned: PCAP - Certified Associate in Python Programming certification

Recommended Next Course: DevNet Associate

skillsforall.com



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: No
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Developed in collaboration with



Course Overview

Students will learn how interactive web and mobile apps are created with JavaScript programming – and how to design, write, debug, and run their own programs.

Benefits

JavaScript is a ubiquitous language used across the internet, with billions of lines of code available for reuse and learning from examples. With its easy-to-use interpreter and debugger already installed on internet browsers, running and experimenting with code is fast and effortless, allowing students to learn the language quickly and build a solid foundation for learning other programming languages.

Explore Opportunities in Technology

- ✓ Develop fundamental programming skills
- ✓ Prepare for JSE certification exam
- ✓ Build your foundation to pursue more specialized networking and software development skills

Course Details

Target Audience: High school, secondary and 2-year college vocational students, IT and non-IT fields university students, career changers

Estimated Time to Completion: 40 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 6 modules and 30+ practice and lab activities
- ✓ Interactive quizzes
- ✓ 1 final test

Course Recognitions: Digital Badge

Certification Aligned: This course aligns to JSE: Certified Entry-Level JavaScript Programmer certification

Recommended next course: DevNet Associate

skillsforall.com



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: No
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Developed in collaboration with

CLA: Programming Essentials in C

Course Overview

This beginner course introduces the the universal concepts of computer programming using the C language, and teaches the syntax, semantics, and data types of the C language.

Benefits

Build transferable skills. When you learn C, you develop overarching fundamentals for all programming languages. Practice your skills through hands-on labs and write your own programs!

Prepare for Careers

- ✓ Develop skills for entry-level programming roles
- ✓ Prepare for CLA certification exam
- ✓ Fulfill prerequisites to pursue more advanced programming skills

Course Details

Target Audience: Secondary, 2-year and 4-year college students

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 9 modules of interactive instructional content
- ✓ 80+ practice labs
- ✓ Chapter and final exams

Course Recognitions: Certificate of Completion

Recommended Next Course:

Internet of Things (IoT) Fundamentals,
CCNA, NDG Linux Essentials

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(Includes language availability)



Programming



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Yes



Certification Aligned

[CLA: C Programming Language Certified Associate](#)

CLP: Advanced Programming in C

Course Overview

This advanced course teaches intermediate to advanced coding such as C handling variable number of parameters (<stdarg.h>), low level IO (<unistd.h>), memory and strings (<string.h> et al.), processes and threads, floats and ints (<math.h>, <fenv.h>, <inttypes.h> et al), and network sockets.

Benefits

Extend your programming knowledge and proficiency. Learn to think harder and deeper about programming concepts.

Prepare for Careers

- ✓ Develop skills for entry-level programming roles
- ✓ Prepare for CLP certification exam
- ✓ Set yourself up to succeed in jobs related to software development, network engineering, and system administration

Course Details

Target Audience: 2-year and 4-year college and university students

Estimated Time to Completion: 70 hours

Prerequisites: CLA: Programming Essentials in C course, CLA certification, or equivalent

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 8 modules of interactive instructional content
- ✓ 18 practice labs
- ✓ Quizzes, chapter and final exams

Course Recognitions: Certificate of Completion

Recommended Next Course:
Internet of Things (IoT) Fundamentals,
NDG Linux I

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Programming



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Yes



Certification Aligned

[CLP: C Certified Professional Programmer](#)

CPA: Programming Essentials in C++

Course Overview

This beginner course introduces the basics of programming in the C++ language and the fundamental notions and techniques used in object-oriented programming.

Benefits

Build transferable skills. When you learn C, you develop overarching fundamentals for all programming languages. Practice your skills through hands-on labs and write your own programs!

Prepare for Careers

- ✓ Develop skills for entry-level programming roles
- ✓ Prepare for CPA certification exam
- ✓ Fulfill prerequisites to pursue more advanced programming skills

Course Details

Target Audience: Secondary, 2-year and 4-year college students

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 8 modules of interactive instructional content
- ✓ 100+ practice labs
- ✓ Chapter and final exams

Course Recognitions: Certificate of Completion

Recommended Next Course:

Internet of Things (IoT) Fundamentals,
NDG Linux Essentials, DevNet Associate

In partnership with



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Programming



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Yes



Certification Aligned

[CPA: C++ Certified Associate Programmer](#)

CPP: Advanced Programming in C++

Course Overview

This advanced course teaches intermediate to advanced coding such as C++ template mechanism, understanding and using property template classes and methods, and the C++ STL library including solving common programming problems and the IO part.

Benefits

Extend your programming knowledge and proficiency. Learn to think harder and deeper about programming concepts.

Prepare for Careers

- ✓ Develop skills for entry-level programming roles
- ✓ Prepare for CPP certification exam
- ✓ Set yourself up to succeed in jobs related to software development, network engineering, and system administration

Course Details

Target Audience: 2-year and 4-year college and university students

Estimated Time to Completion: 70 hours

Prerequisites: CPA: Programming Essentials in C++ course, CPA certification, or equivalent

Course Delivery: Instructor-led

Learning Component Highlights:

- ✓ 9 modules of interactive instructional content
- ✓ 65 practice labs
- ✓ Chapter and final exams

Course Recognitions: Certificate of Completion

Recommended Next Course:
CCNP Enterprise, NDG Linux I

In partnership with



Quick Links

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(Available for select courses)

[List of All Courses](#)

(Includes language availability)



Programming



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Not Applicable



Certification Aligned

[CPP: C++ Certified Professional Programmer](#)

Emerging Technologies Workshop

Experimenting with REST APIs using Webex Teams

Workshop Overview

The Experimenting with REST APIs using Webex Teams workshop introduces you to the basic competencies needed to create applications and automate tasks using REST APIs, the most popular architecture for software integration in IT.

Benefits

In one day students will learn and practice Python programming skills and tools, culminating in live interactions with the APIs on Cisco collaboration software using the Webex Teams online platform.

Learning Outcomes

- Understand value, set-up and use the most prevalent software language (Python) and tools for network programmability (JSON, Postman).
- Understand the importance of participating in professional communities of practice when doing work in the software domain.
- Join and engage in 3 professional communities of practice: GitHub, Stack Overflow and Cisco DevNet.
- Describe the relevance of REST APIs architecture and perform basic software integration and automation using real-world APIs on an enterprise collaboration platform (Webex Teams).



Features

Target Audience: Vocational, 2-year and 4-year College, 4-Year University students

Prerequisites: Basic programming

Languages: English

Course Delivery: Instructor-led

Equipment: FREE! Uses free online software tools

Estimated Time to Complete: 8 hours

Recommended Insertion Points: PCAP Programming Essentials in Python, Connecting Things

Other Insertion Points: IT Essentials, CCNA: ITN

Instructor Training: Required, self-paced options available

Get Connected

Course Overview

Get Connected students are introduced to the Internet and experiment with various social networking sites. Talking characters and devices make this course a user-friendly environment for an audience new to Information Technology (IT).

Benefits

The digital world is upon us both personally and professionally. Gain essential skills like basic computer skills, such as how to use a computer, connect devices, and access search, email, and social media.

Explore Opportunities in Technology

- ✓ Develop your digital basics
- ✓ Start exploring the many career possibilities these skills can open up for you

Course Details

Target Audience: Secondary and general audience new to IT

Estimated Time to Completion: 30 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 5 chapters
- ✓ Illustrations and narrations guide students through topics
- ✓ Interactive activities, videos, & quizzes

Course Recognitions: Certificate of Completion

Recommended Next Course:
IT Essentials



OS & IT



Requirements & Resources

- ASC Alignment Required: No
- Instructor Training Required: No
- Physical Equipment Required: No
- Discount Availability: Not Applicable

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Career Advice

[Tips for getting started in your career](#)

Introduction to IoT and Digital Transformation

Course Overview

The course provides learners with an engaging, exploratory view of the Internet of Things and highlights how Digital Transformation impacts organizations, businesses, governments, industries, and our daily lives.

Benefits

Learners discover how IoT, along with emerging technologies such as data analytics, artificial intelligence and cybersecurity, are digitally transforming industries and expanding career opportunities. Learners understand the importance of Intent-Based Networking using a software-driven approach and machine learning to be able to connect and secure tens of billions of new devices with ease.

Explores Opportunities in Technology

- ✓ Develops digital basics
- ✓ Explores career opportunities in the new emerging technologies landscape

Course Details

Target Audience: Secondary and 2-Year college students, general audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 6 modules
- ✓ 16 practice lab activities
- ✓ 7 Cisco Packet Tracer activities
- ✓ 12 videos
- ✓ Knowledge checks and module quizzes
- ✓ Final exam

Course Recognitions: Digital Badge

Recommended Insertion Points: A great start for any learning path, and a way to introduce digital transformation before or during any Career course.

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

English For IT 1 and 2

Course Overview

The course teaches English language in the context of IT. It covers grammar, vocabulary, reading, and listening skills with some limited writing—focusing on essential terminology and phrases used in technology. The learner will gain upper-intermediate level language skills and prepare for the English for IT B2 / GSE 59-75 certification exam.

Benefits

In a survey of 500 IT employers, 89% said they require employees to have at least some proficiency in English. (Source: Indeed, "Why English Proficiency is Important in the Tech Industry," 2020). Teaching students the essentials will help them land a job.

Develop Professional Skills

- ✓ Students learn to express themselves accurately and confidently with digestible grammar videos
- ✓ Teach how to incorporate idioms into everyday conversations
- ✓ Develop language skills in a fun and interactive way with exercises that deepen understanding.

Course Details

Target Audience: Late-stage K12 and Higher Education students and IT professionals early in their careers

Estimated Time to Completion: 40-50 hours per course

Prerequisites: Learners should be at B1-level English (lower intermediated)

Course Delivery: Self-paced

Learning Component Highlights:

11 listening videos, 29 grammar videos, 6 idiom videos, 3 interview videos
70+ grammar and vocabulary exercises

Course Recognitions: Digital Badge

Certification Alignment: Completing both courses align with the English for IT B2 / GSE 59-75 certification exam

Recommended Next Course: English for IT 2

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Engaging Stakeholders for Success

Course Overview

In this course, your students will learn to identify, prioritize, and engage with stakeholders. They will learn essential personal and social skills through practical, actionable learnings in the context of authentic work scenarios. This course emphasizes the critical role stakeholders play in every project and provides tools that enable students to effectively identify, prioritize and engage with stakeholders for success.

Benefits

Teaching your students how to engage with stakeholders is critical to having a successful and long professional career.

Develop Professional Skills

- ✓ Help students gain stakeholder skills that are transferable to any industry
- ✓ Teach about common pitfalls when working with stakeholders
- ✓ Support your students in practicing stakeholder interview techniques

Course Details

Target Audience: High school, secondary and 2-year college vocational students, IT and non-IT fields university students, and career changers

Estimated Time to Completion: 3 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 3 modules
- ✓ 24 Interactive activities
- ✓ 1 final test

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Other Professional Skills courses

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Discovering Entrepreneurship

Course Overview

This course covers entrepreneurship fundamentals, including the entrepreneurial perspective, identifying opportunities, and crafting your entrepreneurial story. Offering a solid foundation for anyone interested in developing entrepreneurial skills.

Benefits

The demand for well-rounded candidates continues to grow. Teaching your students entrepreneurship fundamentals can help them develop a solutions-oriented approach to challenges in the workplace and in the global market.

Explores Opportunities in Technology

- ✓ Develop skills for Entrepreneurial Specialist job roles
- ✓ Offer learners anywhere a launch point to analyzing entrepreneurial opportunity and creating successful strategies in the market
- ✓ Build entrepreneurial skills through cutting edge entrepreneur frameworks including lean canvas, real-world examples and extended branching activities

Course Details

Target Audience: High School, Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 20 hours

Recommended Preparation: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 15 modules & quizzes
- ✓ 4 extended branching activities
- ✓ Interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital Badge

Recommended Next Course: Other Professional Skills courses

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Devices and Internet
- Additional Equipment Required: No

Getting Started with Cisco Packet Tracer

Course Overview

This short on-ramp course introduces Cisco Packet Tracer, an innovative network simulation and visualization tool. Teaches how to download Cisco Packet Tracer, navigate the simulation environment, and practice building a network using everyday examples.

Benefits

Provides valuable tips, best practices, and builds confidence using this powerful tool offered in many courses.

Explore Opportunities in Technology

- ✓ Install the powerful simulation and visualization tool.
- ✓ Practice networking, cybersecurity, and IoT skills by using Cisco Packet Tracer.

Course Details

Target Audience: General audience

Estimated Time to Completion: 2 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 2 modules
- ✓ 1 Cisco Packet Tracer Tutored Activity (PTTA)
- ✓ 1 Cisco Packet Tracer Activity
- ✓ 1 assessment

Course Recognitions: Skills for All Achievement

Recommended Next Courses:

- ✓ Exploring Networking with Cisco Packet Tracer
- ✓ Exploring IoT with Cisco Packet Tracer



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Exploring Networking with Cisco Packet Tracer

Course Overview

In this course, learners create and explore a small office network using Cisco Packet Tracer. Teach how to connect and configure devices in a network, including wireless devices, and how to manage and monitor a network.

Benefits

Offers valuable tips and practices networking skills using Cisco Packet Tracer.

Explore Opportunities in Technology

- ✓ Teach how to connect and configure devices in a small office network using Packet Tracer
- ✓ Show how packets travel across a network using Simulation Mode
- ✓ Explore how a network controller can be used to manage and configure a network

Course Details

Target Audience: General audience

Estimated Time to Completion: 3 hours

Prerequisites: Getting Started with Cisco Packet Tracer

Course Delivery: Self-paced

Learning Component Highlights:

- ✓ 2 modules
- ✓ 1 Cisco Packet Tracer Tutored Activity (PTTA)
- ✓ 7 Cisco Packet Tracer Activity
- ✓ 1 assessment

Course Recognitions: Skills for All Achievement

Recommended Next Course:
Exploring IoT with Cisco Packet Tracer

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No

Exploring IoT with Cisco Packet Tracer

Course Overview

This course teaches how to set up a smart home network using Cisco Packet Tracer, how to add IoT devices to a home network, and then connect, configure, and monitor them. Learners become more familiar with IoT devices and how they can be programmed. Learners will create their own IoT device and use it in a simulated smart home network.

Benefits

Practice IoT (Internet of Things) skills using Cisco Packet Tracer.

Explores Opportunities in Technology

- ✓ Connect and monitor devices in a smart home network.
- ✓ Modify and monitor environment elements that may affect IoT devices.
- ✓ Create and modify an IoT Thing in Cisco Packet Tracer.

Course Details

Target Audience: General audience

Estimated Time to Completion: 3 hours

Prerequisites: Getting Started with Cisco Packet Tracer course

Course Delivery Self-paced

Learning Component Highlights:

- ✓ 2 modules
- ✓ 6 Cisco Packet Tracer Activity
- ✓ 1 assessment

Course Recognitions: Skills for All Achievement

Recommended Next Course:
Exploring Networking with Cisco Packet Tracer

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Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Basic Equipment: Computer/Mobile Device and Internet
- Additional Equipment Required: No