

Learning Portfolio Overview

Cisco Networking Academy

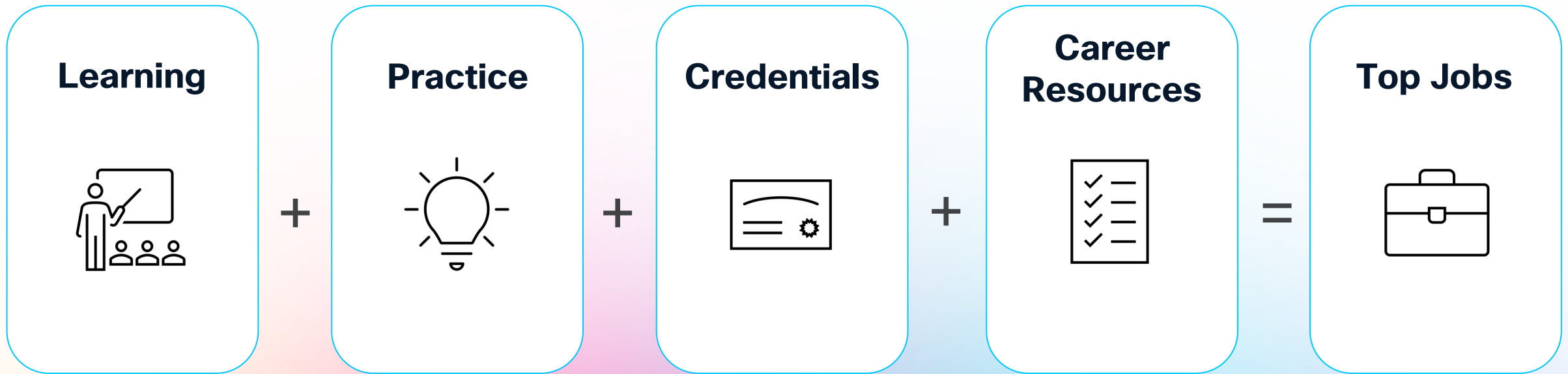


July 26, 2026

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Empowering all people with career possibilities



Cisco Networking Academy offers top-notch, practical curriculum designed with the end in mind: the skills required for success in a job role.

Benefits for educators

- ✓ **Stay at the forefront** with certification-aligned curricula that prepares learners for real job roles and evolves as new technology emerges
- ✓ **Save time** with high quality, pre-built courses and teaching resources
- ✓ **Customize content for your needs** with flexibility for remote, in-classroom, or hybrid teaching
- ✓ **Grow your career** with professional development opportunities and a community of peers around the globe
- ✓ **Engage your learners** with interactive experiences and real-world practice, plus support their trajectory with career resources and job matching services

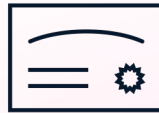
Types of learning offerings



Module

A short learning component focused on a specific learning objective.

Modules can be used on their own or as a supplement to a Course or Career Path.



Course

A series of lessons designed to meet a set of learning objectives about a subject.

Courses include formative assessments and a final exam. Most courses have a digital badge.



Career Path

A clear progression of courses or modules to prepare learners with the skills and knowledge needed for a specific job role and industry certification.

Career Paths are designed with the end in mind: the skills required for success in a job role.



Learning Collection

A group of courses or modules to build knowledge on a topic. Learners gain transferable skills for a variety of job roles.

Learning Collections can complement a Career Path to develop additional breadth of knowledge or stand on their own for delving into a topic.

Flexible course delivery options



Self-paced

- On-demand, engaging experiences
- Great for independent learners, learning guided by a mentor, or hybrid learning approaches



Instructor-led

- Pre-built teaching content, activities, and labs
- Educators can customize and add their own content
- Great for in-class, virtual, or hybrid teaching

Industry-recognized credentials to verify skills



Digital Badges

Most Cisco Networking Academy courses or career paths include a digital badge.

These digital credentials verify that a learner has successfully completed the criteria to earn the badge.

Digital badges issued by Cisco are completely free and easy to share on a resume, website, or social media.



Certifications

The Cisco Networking Academy portfolio prepares learners for industry certifications in cybersecurity, networking, programming, and even English for IT.

With progression paths starting from entry-level, learners get clear achievable milestones to help them get started and grow their tech career.

Exam discounts are available for select certifications for qualifying Cisco Networking Academy students.

Portfolio Summary

Cisco Networking Academy Portfolio



	Cybersecurity	Networking	AI & Data Science	Programming	Information Technology	Digital Literacy	Professional Skills
Introductory	Introduction to Cybersecurity	Introduction to IoT and Digital Transformation	Introduction to Data Science Introduction to Modern AI		Computer Hardware Basics Operating System Basics Linux Unhatched	Digital Literacy Learning Collection* - Digital Awareness - Using Computer and Mobile Devices - Create Digital Content, Communicate, and Collaborate Online - Digital Safety and Security Awareness	
Beginner	Cybersecurity Essentials* Junior Cybersecurity Analyst Career Path* - Endpoint Security - Network Defense - Cyber Threat Management Industrial Cybersecurity Essentials	Networking Essentials* Network Technician Career Path* - Networking Basics - Networking Devices and Initial Configuration - Network Addressing and Basic Troubleshooting - Network Support and Security Industrial IoT and Control Systems in Energy Industrial IoT and Control Systems in Manufacturing Industrial Networking Essentials Data Center Foundations	Apply AI Learning Collection - Analyze Customer Reviews - Update Your Resume AI Fundamentals: Foundations for Understanding AI AI Fundamentals Language and Vision in AI AI with Intel Learning Collection	Python Essentials 1* JavaScript Essentials 1* C Essentials 1* C++ Essentials 1* CSS Essentials* HTML Essentials*	IT Support Essentials* IT Support Specialist Career Path* - IT Customer Support Basics - Operating Systems Support - Security & Connectivity Support - Hardware & Upgrade Support Linux Essentials	Core Skills - Creating Compelling Reports - Engaging Stakeholders for Success English for IT - Basics Learning Collection* - Describing & Comparing - Advice & Time - Needs & Responsibilities - People & Quantities Entrepreneurship - Discovering Entrepreneurship - Launching a Business Venture - Managing a Business Venture Career Resources - Career Preparation Workshop	
Intermediate	CyberOps Associate* Ethical Hacker* Cybersecurity Defense Analyst Career Path* - The Cybersecurity Landscape - Understanding Threats and Attacks - Security Operations and the Defense Analyst - Introduction to Splunk - Data and Tools for Defense Analysts - The Art of Investigation - SOC Essentials: Investigating with Splunk - SOC Essentials: (Introduction to Threat Hunting Network Security	CCNA: Introduction to Networks* CCNA: Switching, Routing, and Wireless Essentials* CCNA: Enterprise Networking, Security, & Automation* DevNet Associate*	Data Analytics Essentials Data Science Essentials with Python	Python Essentials 2* JavaScript Essentials 2* C Essentials 2* C++ Essentials 2*	Linux 1* Linux 2*	English for IT 1* English for IT 2*	
Advanced		CCNP Enterprise: Core Networking* CCNP Enterprise: Advance Routing*		C Advanced* C++ Advanced*			

Practice Tools

Labs

- Cisco Packet Tracer
- Virtual machines
- Remote labs
- Physical equipment

Interactive Learning

- Built-in web widgets
- Games
- Interactive branching activities

Assessments

- Adaptive assessments powered by AI
- Formative quizzes and exams
- Summative exams

Cisco Packet Tracer Courses

- Getting Started with Cisco Packet Tracer
- Exploring Networking with Cisco Packet Tracer
- Exploring Internet of Things with Cisco Packet Tracer

*Indicates certification-aligned curriculum

Course Requirements & Languages

Networking

 Self-paced  Instructor-led

Learning Offerings	Outcomes		Requirements			Language Availability																			
	Aligns to Certification or Certificate	Digital Badge	ASC Alignment	Instructor Training	Physical Equipment	Arabic	Chinese-Simplified	Chinese-Traditional	Czech	Dutch	English	French	German	Greek	Hungarian	Indonesian	Italian	Japanese	Korean	Polish	Portuguese-Brazil	Romanian	Spanish	Turkish	Ukrainian
Introduction to IoT and Digital Transformation		✓																							
																									
Networking Essentials	✓	✓																							
																									
Networking Basics	✓	✓																							
																									
Networking Devices and Initial Configuration		✓																							
																									
Network Addressing and Basic Troubleshooting	✓	✓																							
																									
Network Support and Security		✓																							
																									
Network Technician Career Path Exam	✓	✓																							
																									

Networking

 Self-paced

 Instructor-led

[illegible]

Cybersecurity

 Self-paced  Instructor-led

Learning Offerings	Outcomes		Requirements			Language Availability																			
	Aligns to Certification or Certificate	Digital Badge	ASC Alignment	Instructor Training	Physical Equipment	Arabic	Chinese-Simplified	Chinese-Traditional	Dutch	English	French	German	Greek	Indonesian	Italian	Japanese	Korean	Polish	Portuguese-Brazil	Romanian	Spanish	Thai	Turkish	Ukrainian	Vietnamese
Introduction to Cybersecurity		✓																							
Cybersecurity Essentials	✓	✓																							
																									
Endpoint Security	✓	✓																							
																									
Network Defense		✓	✓																						
																									
Cyber Threat Management		✓	✓																						
																									
Junior Cybersecurity Analyst Career Path Exam	✓	✓																							
																									
CyberOps Associate	✓	✓	✓	✓																					
																									
Network Security		✓	✓	✓	✓																				
																									

Cybersecurity

 Self-paced

 Instructor-led

[illegible]

Cybersecurity

 Self-paced

 Instructor-led

[illegible]

AI & Data Science

 Self-paced  Instructor-led

[illegible]

Information Technology

 Self-paced  Instructor-led

[illegible]

Information Technology

 Self-paced
  Instructor-led

Learning Offerings	Outcomes		Requirements			Language Availability																		
	Aligns to Certification or Certificate	Digital Badge	ASC Alignment	Instructor Training	Physical Equipment	Arabic	Chinese-Simplified	Chinese-Traditional	Czech	Dutch	English	French	German	Hungarian	Indonesian	Italian	Japanese	Korean	Polish	Portuguese-Brazil	Romanian	Spanish	Turkish	Ukrainian
IT Customer Support Basics	✓	✓									📶													
											✓													
Operating Systems Support	✓	✓									📶													
											✓													
Security and Connectivity Support	✓	✓									📶													
											✓													
Hardware and Upgrade Support	✓	✓									📶													
											✓													
IT Support Essentials	✓	✓									✓	✓				✓				✓		✓		
						✓	✓				✓	✓				✓				✓		✓		

Programming

 Self-paced  Instructor-led

[illegible]

Programming

 Self-paced  Instructor-led

[illegible]

Digital Literacy

 Self-paced
  Instructor-led

Learning Offerings	Outcomes		Requirements			Language Availability																			
	Aligns to Certification or Certificate	Digital Badge	ASC Alignment	Instructor Training	Physical Equipment	Arabic	Czech	Dutch	English	French	German	Greek	Hungarian	Indonesian	Italian	Japanese	Korean	Polish	Portuguese-Brazil	Portuguese-Portugal	Romanian	Spanish	Turkish	Ukrainian	Welsh
Digital Awareness	✓	✓																							
																									
Using Computer & Mobile Devices	✓	✓																							
																									
Create Digital Content, Collaborate, & Communicate Online	✓	✓																							
																									
Digital Safety & Security Awareness	✓	✓																							
																									

Professional Skills

 Self-paced  Instructor-led

[illegible]

Professional Skills

 Self-paced  Instructor-led

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Cisco Packet Tracer

 Self-paced  Instructor-led

Learning Offerings	Outcomes		Requirements			Language Availability																	
	Aligns to Certification or Certificate	Digital Badge	ASC Alignment	Instructor Training	Physical Equipment	Arabic	Chinese-Simplified	Czech	Dutch	English	French	German	Hungarian	Indonesian	Italian	Japanese	Korean	Polish	Portuguese-Brazil	Romanian	Spanish	Turkish	Ukrainian
Getting Started with Cisco Packet Tracer		✓																					
																							
Exploring Internet of Things with Cisco Packet Tracer																							
																							
Exploring Networking with Cisco Packet Tracer																							
																							

Featured Modules

 Self-paced

 Instructor-led

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Networking

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.

- ✓ 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

Recommended Preparation: None

Course Delivery: Instructor-led or 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

Certification Alignment: None

Recommended Next Course: Networking Basics



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

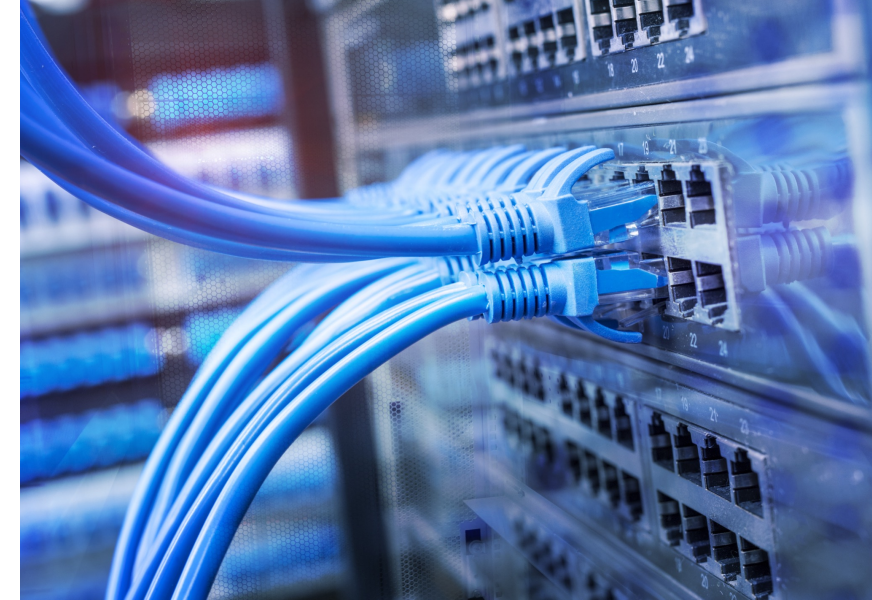
- 39 modules
- 48 practice labs
- 160+ interactive activities, videos, & quizzes
- 15 module exams
- 1 final exam

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: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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: 22 hours

Prerequisites: None

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

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

Course Recognitions: Digital Badge

Certification Aligned: 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
- Physical Equipment: Not Required

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.

- ✓ 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: 22 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 Aligned: 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



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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: 14 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:
Network Support and Security



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Network Support and Security

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.

- ✓ 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 Course:
CCNA: Introduction to Networks



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

CCNA: Introduction to Networks (ITN)

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

Learn to build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security, and perform basic configurations for routers and switches.

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

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

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 17 modules and 24 practice labs
- 31 Cisco Packet Tracer activities
- 120+ interactive activities, videos, & quizzes
- 1 final exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Networking Associate

Recommended Next Course:

CCNA: Switching, Routing, and Wireless Essentials (SRWE)



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

CCNA: Switching, Routing, and Wireless Essentials (SRWE)

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 local area network (LAN) security threats, and configure and secure a basic WLAN.

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

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

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 16 modules and 14 practice labs
- 31 Cisco Packet Tracer activities
- 70+ interactive activities, videos, & quizzes
- 1 final exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Networking Associate

Recommended Next Course:

CCNA: Enterprise Networking, Security, and Automation (ENSA)



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

CCNA: Enterprise Networking, Security, and Automation (ENSA)

Course Overview

The final course in the CCNA series covers the architecture, security, and operation of an enterprise network, along with introducing the new ways in which network engineers interact with programmable infrastructure.

Benefits

Gain skills to configure and troubleshoot enterprise networks, learn to identify and protect against cybersecurity threats, and discover key concepts of software-defined networking, including controller-based architectures and application programming interfaces (APIs).

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

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

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 14 modules and 12 practice labs
- 29 Cisco Packet Tracer activities
- 100+ interactive activities, videos, & quizzes
- 1 practice certification exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Networking Associate

Recommended Next Course:
CCNP Enterprise: Core Networking (ENCOR)



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

CCNP Enterprise: Core Networking (v9)

Course Overview

This course is the first in the two-part CCNP Enterprise series. It provides professional-level knowledge to install, configure, operate, and troubleshoot enterprise networks.

The curriculum integrates core routing, switching, and security principles with modern overlay network designs, including SD-Access and SD-WAN, as well as network automation and programmability.

Benefits

This course prepares learners for the Cisco Enterprise Network Core Technologies exam (350-401 ENCOR v1.2).

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

- ✓ **Practical Skills:** Develops critical thinking and complex problem-solving skills through in-depth hands-on labs and Cisco Modeling Labs (CML) simulations.
- ✓ **Modern Skillset:** Builds essential proficiency in Network Automation, Python, Cisco DNA Center, and SD-WAN solutions.
- ✓ **Real-World Application:** Develops practical configuration and troubleshooting abilities for complex enterprise environments.
- ✓ **Career Advancement:** Validates the professional-level knowledge required for Network Engineer roles.

Course Details

Target Audience: Universities and Colleges.

Estimated Time to Completion: 70 hours

Prerequisites: CCNA level knowledge or equivalent

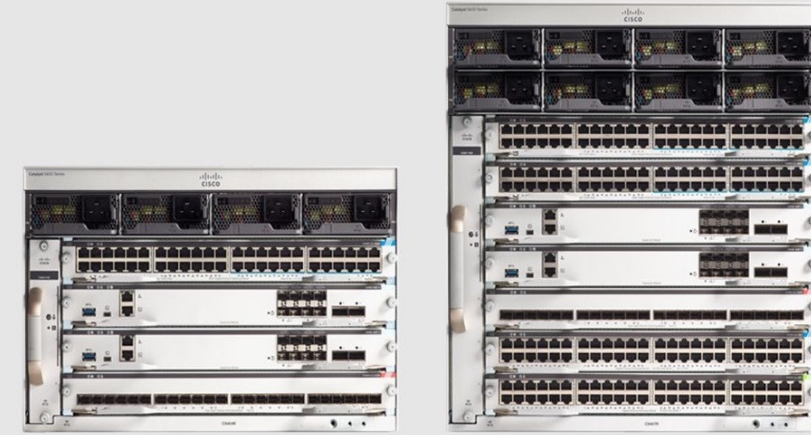
Course Delivery: Instructor-led

Learning Component Highlights:

- 26 learning modules
- 148 videos
- 29 hands-on lab activities
- 21 Cisco Packet Tracer activities
- 6 module group exams
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: CCNP Enterprise Advanced Routing



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

Course Overview

This course is the second in the two-part CCNP Enterprise series. It focuses on the knowledge and skills required to install, operate, manage, and troubleshoot complex enterprise networks.

The curriculum emphasizes advanced routing, VPN technologies, infrastructure security, and the diagnosis of network issues to ensure smooth and effective operations.

Benefits

This course prepares learners for the Implementing Cisco Enterprise Advanced Routing and Services exam (300-410 ENARSI v1.1).

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

- ✓ **Practical Skills:** Develops critical thinking and complex problem-solving skills through in-depth hands-on labs and Cisco Modeling Labs (CML) simulations.
- ✓ **Advanced Routing Mastery:** Deepen your expertise in implementing, optimizing, and troubleshooting Layer 3 technologies, including EIGRP, OSPF, and BGP.
- ✓ **Complex Services:** Master the implementation of VPN technologies (MPLS, DMVPN) and infrastructure security services (IPv6 First Hop Security, CoPP).
- ✓ **Troubleshooting Expertise:** Develop critical diagnostic skills using advanced tools like Cisco DNA Center Assurance to identify and resolve network issues.

Course Details

Target Audience: Universities and Colleges.

Estimated Time to Completion: 70 hours

Prerequisites: CCNP Core Networking level knowledge or equivalent

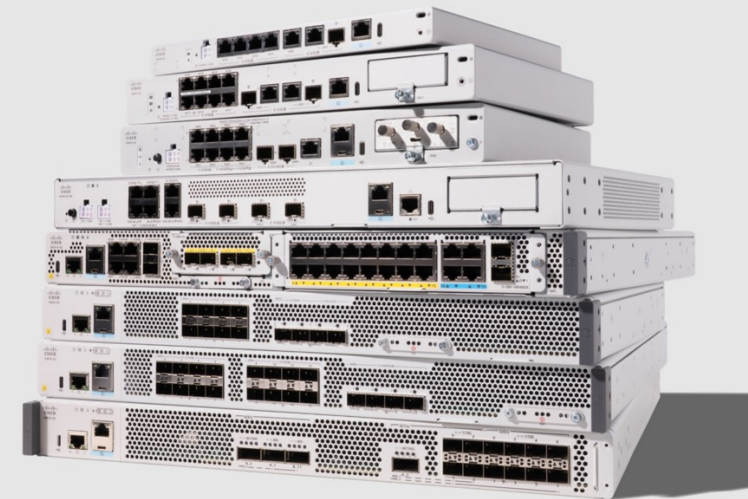
Course Delivery: Instructor-led

Learning Component Highlights:

- 23 learning modules
- 183 videos
- 26 hands-on lab activities
- 19 Cisco Packet Tracer activities
- 6 module group exams
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: DevNet Associate



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

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.

- ✓ 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

Prerequisites: None

Recommended Preparation: Object-oriented 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 and 23 practice labs
- 5 Cisco Packet Tracer activities
- 6 videos, 8 quizzes, 8 module exams
- 1 final exam, 1 practice certification exam

Course Recognitions: Digital Badge

Certification Alignment: Cisco Certified DevNet Associate

Recommended Next Course: CCNA, CCNP Enterprise, or CyberOps Associate



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Not Required

Industrial Networking Essentials

Course Overview

Introduce foundational networking concepts essential for modern industrial infrastructures, focusing on IT and OT integration. Prepare learners for entry-level careers in operational technology (OT), with practice using Cisco Packet Tracer 9.0.0, to simulate real-world scenarios with industrial devices.

Benefits

Equip your students with the confidence and skills needed to get started in connecting industrial devices. This curriculum, co-designed with industry experts, ensures learners gain relevant skills that meet current industry demands.

- ✓ Discover the benefits and key considerations of IT and OT integration.
- ✓ Teach fundamental networking concepts tailored for industrial environments.
- ✓ Understand Ethernet network communication and IP addressing.
- ✓ Explore key industrial protocols including, Ethernet/IP, PROFINET, and Modbus.
- ✓ Build a simple, simulated Industrial Automation Control Systems (IACS) network using Cisco devices.

Course Details

Target Audience: High school, secondary and general audience

Estimated Time to Completion: 35 hours

Prerequisites: Basic computer skills, familiarity with operating systems, internet usage and a basic understanding of industrial components such as Programmable Logic Controller (PLC).

Course Delivery: Self-paced (exclusively through participating academies) and Instructor-led

Learning Component Highlights:

- 17 learning modules
- 22 Cisco Packet Tracer activities
- 3 interactive labs
- 1 per-module Glossary of Terms
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: Additional courses coming soon.



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Industrial IoT and Control Systems in Manufacturing

Course Overview

Explore how Industrial Control Systems (ICS) and Industrial Internet of Things (IIoT) technologies drive smart manufacturing. Learners will develop skills for modern production by simulating automated processes, PLC programming, and networked manufacturing systems using Cisco Packet Tracer 9.0.0.

Benefits

Equip your students with the confidence and skills to support and optimize manufacturing environments. This curriculum, co-designed with industry experts, ensures learners gain relevant skills that meet current industry demands.

- ✓ Discover how Industrial Control Systems (ICS) enable efficient, reliable and safe operations.
- ✓ Teach high availability solutions and time synchronization using the Precision Time Protocol (PTP).
- ✓ Understand how Industrial Internet of Things (IIoT) drives automation and connectivity.
- ✓ Practice with 12 Packet Tracer activities including Programmable Logic Controllers (PLCs) using Ladder Logic.

Course Details

Target Audience: High school, secondary, and post-secondary institutions (especially those with programs in industrial automation) and a general audience.

Estimated Time to Completion: 15 hours

Prerequisites: Industrial Networking Essentials or equivalent knowledge

Course Delivery: Instructor-led & Self-Paced at an academy

Learning Component Highlights:

- 6 learning modules
- 12 Cisco Packet Tracer activities
- 2 interactive labs
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: Industrial Cybersecurity Essentials



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Industrial IoT and Control Systems in Energy

Course Overview

Explore Industrial IoT and Control Systems to meet modern energy network requirements within Smart Grid environments. Gain a comprehensive overview of Smart Grid systems and process automation and simulate real-world industrial scenarios using Cisco Packet Tracer 9.0.0.

Benefits

Equip your students with foundational Industrial IoT and Control systems knowledge for modern energy solutions. This course, co-designed with industry experts, ensures learners gain relevant skills that meet current industry demands.

- ✓ Discover the benefits and key roles of Industrial Control Systems (ICS) and Smart Grid technologies.
- ✓ Teach process automation and Supervisory Control and Data Acquisition (SCADA) architectures for electric power systems.
- ✓ Teach high availability solutions and time synchronization using the Precision Time Protocol (PTP).
- ✓ Practice on a simulated Smart Grid network with 14 Cisco Packet Tracer activities.

Course Details

Target Audience: High school, secondary, and post-secondary institutions (especially those with programs in the energy sector) and a general audience.

Estimated Time to Completion: 15 hours

Prerequisites: Industrial Networking Essentials or equivalent knowledge

Course Delivery: Instructor-led & Self-Paced at an academy

Learning Component Highlights:

- 6 learning modules
- 14 Cisco Packet Tracer activities
- 1 interactive lab
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: Industrial Cybersecurity Essentials



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Cybersecurity

Introduction to Cybersecurity

Course Overview

Introduction to Cybersecurity v3.1 is a foundational course designed to help learners understand today's digital threat environment and how to defend against it. The course covers personal online safety, common cyber-attacks, organizational defense strategies, and cybersecurity career pathways. New in this version: AI-era threats, zero trust principles, and five hands-on simulations that put learners in real security scenarios.

Benefits

By taking this course, students will learn the following:

- ✓ **Recognize modern threats:** Identify cyber-attacks including AI-generated phishing, malware, voice cloning, and social engineering.
- ✓ **Protect themselves online:** Apply best practices for securing personal devices, managing credentials, and staying safe on public networks.
- ✓ **Understand organizational defense:** Explain how organizations use firewalls, zero trust architecture, and behavior-based security to protect their operations.
- ✓ **Plan a cybersecurity career:** Explore job roles, certifications, and career paths.

Course Details

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

Estimated Time to Completion: 6 hours

Prerequisites: None. No prior experience in IT, networking, or cybersecurity is needed.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 5 modules
- 7 simulations with real-time feedback
- 1 career-readiness module connecting learners to cybersecurity roles, certifications, and next steps
- 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: Networking Basics



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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: CCST Cybersecurity

Recommended Next Course: CyberOps Associate



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Endpoint Security

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.

- ✓ 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: CCST Cybersecurity

Recommended Next Course: Network Defense



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

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.

- ✓ 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: CCST Cybersecurity

Recommended Next Course: Cyber Threat Management



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

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.

- ✓ 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: CCST Cybersecurity Certification

Recommended Next Course: CyberOps Associate



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

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.

- ✓ Develop skills for entry-level security operations center (SOC) jobs
- ✓ Prepare for Cybersecurity 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 want to pursue a career in Security Operations

Estimated Time to Completion: 70 Hours

Prerequisites: None

Recommended Preparation: Introduction to Cybersecurity, Cybersecurity Essentials

Course Delivery: Instructor-led

Learning Component Highlights:

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

Course Recognitions: Digital Badge

Certification Alignment: Cisco Certified Cybersecurity Associate

Recommended Next Course: Network Security, Ethical Hacker

Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Not required



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. Develop skills for entry-level security operations center (SOC) jobs

- ✓ 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

Prerequisites: None

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

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: CyberOps Associate



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

Industrial Cybersecurity Essentials

Course Overview

Introduce essential cybersecurity concepts for modern industrial infrastructures, focusing on securing Industrial Internet of Things (IIoT) and Industrial Controls Systems (ICS). Prepare learners for entry-level careers in operational technology (OT), and to practice using Cisco Packet Tracer 9.0.0, to simulate real-world scenarios with industrial devices.

Benefits

Equip your students with the confidence and skills needed safeguard industrial network systems. This curriculum, co-designed with industry experts, ensures learners gain relevant skills that meet current industry demands.

- ✓ Discover the importance of cybersecurity in an industrial context and how cyber-attack occur.
- ✓ Teach common Industrial Control Systems (ICS) vulnerabilities, threats, and strategies for mitigation.
- ✓ Investigate cybersecurity frameworks such as IEC 62443 and NIST SP 800-82r3.
- ✓ Practice with 11 labs, including select labs in the Kali Linux Virtual Machine as well as 6 Cisco Packet Tracer activities.

Course Details

Target Audience: High school, secondary, and post-secondary institutions (especially those with programs in industrial automation or the energy sector) and a general audience.

Estimated Time to Completion: 25 hours

Prerequisites: Industrial Networking Essentials and either Industrial IoT and Control Systems in Energy or Industrial IoT and Control Systems in Manufacturing

Course Delivery: Instructor-led & Self-Paced Through an Academy

Learning Component Highlights:

- 9 learning modules
- 6 Cisco Packet Tracer activities
- 11 interactive labs
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: Ethical Hacker



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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 or 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

Certification Alignment: Cisco Certificate in Ethical Hacking

Recommended Next Course: CyberOps Associate, Network Security



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

The Cybersecurity Landscape

Course Overview

Cybersecurity Landscape is the first course in the Splunk Cybersecurity Defense Analyst career path. This course is specifically tailored for students aiming to start or advance their careers as Security Analysts within a Security Operations Center (SOC). Students will explore foundational concepts, analyze historic security events, and engage in activities designed to develop the skills for successful modern cybersecurity analysis.

Benefits

By taking this course, students will gain the following:

- ✓ Master Information Assurance: Identify security concepts and the importance of information assurance.
- ✓ Analyze Impact: Understand the real-world costs and consequences of historic security incidents.
- ✓ Apply the CIA Triad: Describe and apply the core principles of Confidentiality, Integrity, and Availability.

Course Details

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

Estimated Time to Completion: 3 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 3 learning modules
- Instructional videos and interactive activities
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: Understanding Threats and Attacks



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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Understanding Threats and Attacks

Course Overview

Understanding Threats and Attacks is the second course in the Splunk Cybersecurity Defense Analyst career path. This course introduces learners to the tools, resources, and mindsets of modern attackers. A unique feature of this course is the inclusion of the “Once Upon an Attack (OUAA)” web series, which provides real-world context through engaging storytelling to complement the technical learning experience.

Benefits

By taking this course, students will gain the following:

- ✓ **Analyze Attacker Motivations:** Identify the common drivers behind cyberattacks and the basics of Advanced Persistent Threats (APTs).
- ✓ **Identify Attack Vectors:** Recognize common types of attacks, attack vectors, and the Tactics, Techniques, and Procedures (TTPs) used by adversaries.
- ✓ **Learn Industry Frameworks:** Learn to navigate the MITRE ATT&CK® matrices and other analytic frameworks like the Cyber Kill Chain® and the Diamond Model.

Course Details

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

Estimated Time to Completion: 4 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 3 learning modules
- "Once Upon an Attack" Episodes
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: Security Operations and the Defense Analyst



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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Security Operations and the Defense Analyst

Course Overview

Security Operations and the Defense Analyst is the third course in the Splunk Cybersecurity Defense Analyst career path. This course provides a "behind-the-scenes" look at the world of cybersecurity through the eyes of industry professionals. It bridges the gap between theory and practice by featuring exclusive interviews with Splunk Security champions, offering deep insights into the daily life, responsibilities, and career progression of a Security Analyst within a modern Security Operations Center (SOC).

Benefits

By taking this course, students will gain the following:

- ✓ Understand SOC Architecture: Summarize the organization and technology stack of a typical Security Operations Center.
- ✓ Define Professional Roles: Distinguish between the tasks and responsibilities of the Cybersecurity Analyst, Engineer, and Architect.
- ✓ Learn Performance Metrics: Learn to measure success using KPIs such as dwell time, Mean Time to Detect (MTTD), and Mean Time to Respond (MTTR).

Course Details

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

Estimated Time to Completion: 2 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 5 learning modules
- Interviews with Splunk Security Leaders
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: Introduction to Splunk



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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Course Overview

Introduction to Splunk is the fourth course in the Splunk Cybersecurity Defense Analyst career path. This course is designed for students who want to learn the foundational skills of searching, analyzing, and visualizing data. It provides a walkthrough of the Splunk Web interface and introduces Search Processing Language (SPL), the engine behind Splunk. By the end, students will be able to navigate Splunk apps, perform complex searches, and transform raw data into actionable reports and dashboards.

Benefits

By taking this course, students will gain the following:

- ✓ Learn the Interface: Navigate the Splunk Web interface, understand user roles, and utilize the Search & Reporting app.
- ✓ Learn SPL Fundamentals: Understand the anatomy of Splunk's Search Processing Language.
- ✓ Visualize Insights: Use transforming commands to create visualizations and save searches as professional reports.

Course Details

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

Estimated Time to Completion: 1 hour

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 8 learning modules
- Hands-on Data Visualization Exercises
- Report and Dashboard Creation
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: Data and Tools for Defense Analysts

Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

The Splunk logo, featuring the word "splunk" in a bold, sans-serif font, followed by a greater-than sign ">". Below the logo, it says "a CISCO company" in a smaller, sans-serif font.

Data and Tools for Defense Analysts

Course Overview

Data and Tools for Defense Analysts is the fifth course in the Splunk Cybersecurity Defense Analyst career path. This course marks the transition into specialized SOC operations. Presented as an interactive experience featuring the fictional "Wonderland SOC," this course introduces learners to the specific tools and data sources used by professional analysts. Students will move beyond general security knowledge to learn the resources to successfully investigate security events in both on-premises and cloud environments.

Benefits

By taking this course, students will gain the following:

- ✓ Learn SOC Infrastructure: Identify common cyber defense systems, analysis tools, and critical data sources for threat analysis.
- ✓ Apply Threat Intelligence: Understand the tiers of Threat Intelligence and learn how to search intelligence sources for Indicators of Compromise.
- ✓ Optimize SIEM Operations: Describe SIEM best practices and core Splunk Enterprise Security concepts.

Course Details

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

Estimated Time to Completion: 4 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 4 learning modules
- Interactive "Wonderland SOC" Scenario
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: The Art of Investigation



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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The Art of Investigation

Course Overview

The Art of Investigation is the sixth course in the Splunk Cybersecurity Defense Analyst career path. Set within the interactive "Wonderland Security Operations Center (SOC)," learners act as analysts-in-training. By "riding-along" with experienced Wonderland analysts, students shadow real-world security investigations to hone the critical thinking and technical skills necessary for successful cyber defense.

Benefits

By taking this course, students will gain the following:

- ✓ Learn Investigation Stages: Apply Splunk's five basic stages of investigation to any security event.
- ✓ Investigative SPL: Learn how to use specific Search Processing Language (SPL) terms for investigative workflows.
- ✓ Field Analysis: Understand the function of "interesting fields" and Common Information Model (CIM) fields within security use cases.

Course Details

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

Estimated Time to Completion: 6 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 4 learning modules
- 3 Immersive "Ride-along" Investigations
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: SOC Essentials: Investigating with Splunk



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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SOC Essentials: Investigating with Splunk

Course Overview

SOC Essentials: Investigating with Splunk is the seventh course in the Splunk Cybersecurity Defense Analyst career path. Learners explore Splunk Enterprise Security (ES) and Risk-Based Alerting (RBA) while performing analyst tasks. The course connects the dots between detection and response by introducing Splunk SOAR playbooks and automation, providing an overview at how modern SOC's handle complex security events.

Benefits

By taking this course, students will gain the following:

- ✓ Learn SIEM Operations: Apply best practices for Splunk Enterprise Security, including the interaction between CIM, Data Models, and acceleration.
- ✓ Use Security Frameworks: Use Asset & Identity and Threat Intelligence frameworks to enrich investigations and identify entities.
- ✓ Understand Detection & Findings: Define and manage Splunk ES elements like Findings, Risk-Based Findings, and Adaptive Response Actions.

Course Details

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

Estimated Time to Completion: 2.5 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 4 learning modules
- Instructional videos & interactive activities
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: SOC Essentials: Introduction to Threat Hunting



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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SOC Essentials: Introduction to Threat Hunting

Course Overview

SOC Essentials: Introduction to Threat Hunting is the eighth and final course in the Splunk Cybersecurity Defense Analyst career path. This course moves from reactive monitoring into proactive threat hunting. Set within the interactive "Wonderland SOC," learners are guided through the PEAK Threat Hunting Framework. Students will learn how to prepare, plan, and execute different hunts—ranging from hypothesis-driven to baseline and model-assisted approaches—to find hidden adversaries.

Benefits

By taking this course, students will gain the following:

- ✓ PEAK Framework: Learn to navigate the Prepare, Execute, and Act (PEAK) framework to professionalize threat hunting operations.
- ✓ Hypothesis-Driven Hunting: Develop the skills to create a hunt hypothesis, scope a plan, and execute a search for adversary behaviors.
- ✓ Statistical Baseline Hunting: Use the "Power of Statistics" to identify outliers and anomalies within large data sets using Splunk.

Course Details

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

Estimated Time to Completion: 5.5 hours

Prerequisites: We recommend completing the CCST Cybersecurity certification or having similar knowledge.

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 5 learning modules
- Interactive activities
- 1 final quiz

Course Recognitions: Not Available

Certification Alignment: This course is part of the Cybersecurity Defense Analyst Career Path, which aligns to the Splunk Certified Cybersecurity Defense Analyst Certification.

Recommended Next Course: Ethical Hacker



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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AI & Data Science

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.

- ✓ 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

Recommended Preparation: None

Course Delivery: Self-paced

Learning Component Highlights:

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

Course Recognitions: Digital Badge

Recommended Next Course:
Data Analytics Essentials



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Introduction to Modern AI

Course Overview

This interactive course covers the basics of AI through free AI-enabled apps. Topics include the basics of computer vision, machine translation, and chatbots. Students learn how chatbots work, gain tips for writing better prompts, and explore ways to apply chatbots for personal use and productivity.

Benefits

AI-enabled apps are revolutionizing the way we work and learn, with millions worldwide using them to simplify everyday tasks. Teaching students practical AI skills can foster innovation and enhance their future AI readiness.

- ✓ Write effective chatbot prompts.
- ✓ Teach computer vision with a photo app.
- ✓ Apply machine translation using an online translation tool.
- ✓ Practice 16 prompting exercises, with 10+ popular chatbots and AI tools.
- ✓ Learn how chatbots are used in seven key-ways: *Expand, Synthesize, Transform, Evaluate, Chat, Take Actions*, and *Input Images and Text*.

Course Details

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

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 2 learning modules
- 50 lecture videos
- 16 chatbot prompting exercises
- 5 hours of engaging video content
- 1 hands-on, open-ended video project
- 1 final exam

Course Recognitions: Digital badge



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ QL 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
- Physical Equipment: Not Required

AI Fundamentals: Foundations for Understanding AI

Course Overview

Students will explore what AI is, how machines learn, and the core technologies that power today's AI applications. The course introduces five major AI topic areas: AI foundations, machine learning, neural networks, deep learning, and AI forms and functions. Through these topics, students will practice applying models to solve problems and build critical thinking skills around AI ethics, fairness, bias, and responsible use.

Benefits

- ✓ Build foundational AI literacy that applies across many career paths, industries, and everyday technology use
- ✓ Develop awareness of responsible AI practices, including ethical considerations, fairness, and bias
- ✓ Learn how machine learning, neural networks, deep learning, computer vision, and generative AI are used to solve real-world problems

Course Details

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

Estimated Time to Completion: 9 hours

Prerequisites: None

Course Delivery: Self-paced

Learning Component Highlights:

- 5 learning modules
- 10 videos
- 5 post-module quizzes
- 2 Knowledge Checks
- 18 interactive practice activities

Course Recognitions: Digital badge

Recommended Next Course: AI Fundamentals: Language and Vision in AI



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with

IBM SkillsBuild

AI Fundamentals: Language and Vision in AI

Course Overview

Students will explore how AI systems process language, interpret images, power intelligent agents, and support real-world decision-making. Through practical examples and interactive activities, they will learn about natural language processing, conversational AI, computer vision, generative AI tools, AI agents, and the growing AI job landscape.

Benefits

- ✓ Expand AI knowledge beyond the basics by exploring how AI works with language, images, and intelligent agents
- ✓ Gain hands-on experience with AI tools, including using Google Gemini to create visual assets and support real-world scenarios
- ✓ Learn how to evaluate AI-generated outputs responsibly, including ethical considerations around images, recommendations, and AI agents

Course Details

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

Estimated Time to Completion: 10 hours

Prerequisites: AI Fundamentals: Foundations for Understanding AI

Course Delivery: Self-paced

Learning Component Highlights:

- 5 learning modules
- 5 videos
- 5 post-module quizzes
- 1 Knowledge Check
- 18 interactive practice activities
- AI learning journey roadmap activity

Course Recognitions: Digital badge

Recommended Next Course: Apply AI: Analyze Customer Reviews



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with

IBM SkillsBuild

Apply AI: Analyze Customer Reviews

Course Overview

This interactive course shows how to perform thematic analysis on text data to extract insights for data-backed decision making. Students also explore choosing the right AI or non-AI tool for the task; improving AI reliability and understand human in the loop.

Benefits

Organizations everywhere rely on customer feedback to guide decisions. Learning how to analyze this feedback is a valuable skills in any job role. Thematic analysis with the help of AI empowers learners to understand their data and share actionable insights with their team.

- ✓ Learn how to apply and practice thematic analysis with 12 interactive exercises.
- ✓ Choose the right AI or non-AI tool for your task: a large language model, chatbot that writes and runs code, a spreadsheet app, or a text editor.
- ✓ Reframe prompt instructions and prepare your data to achieve more reliable results from an LLM..
- ✓ Understand the "human in the loop" process: using AI to assist with, but not to replace, human decision-making.

Course Details

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

Estimated Time to Completion: 6 hours

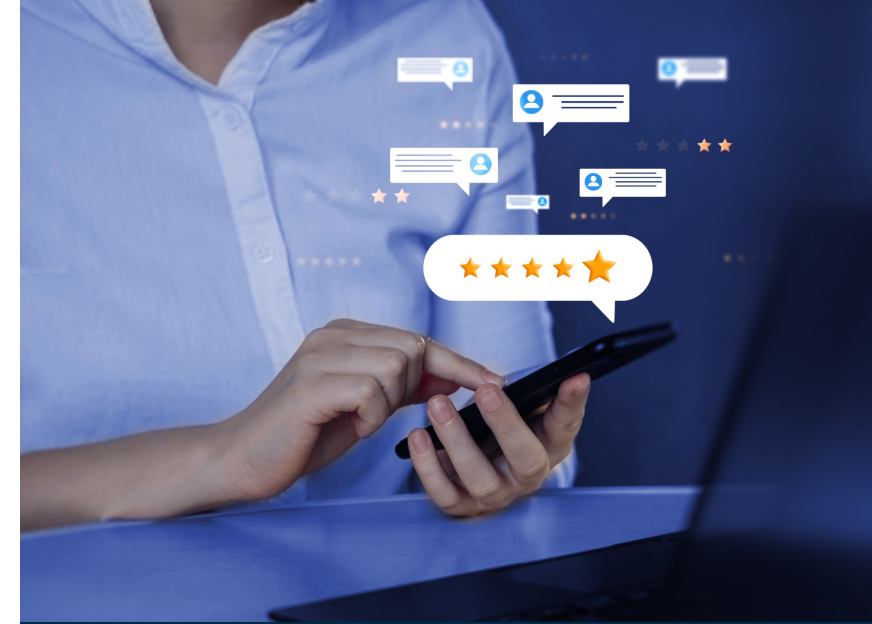
Prerequisites: None

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 1 learning module
- 48 lecture videos
- 12 thematic analysis exercises
- 3 hours of engaging video content
- 1 final exam

Course Recognitions: Digital badge



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Apply AI: Update Your Resume

Course Overview

This course teaches students to enhance and customize their resumes using AI while maintaining data privacy. Students learn a systematic workflow combining local LLMs for sensitive information with public chatbots for general tasks. Through hands-on exercises, students extract accomplishments from their work documents, validate AI outputs, and optimize resumes for both ATS and human reviewers. The structured approach emphasizes critical evaluation of AI-generated content, making it ideal for teaching responsible AI use in professional contexts.

Benefits

By taking this course, students will gain the following:

- ✓ Build a privacy-protected AI workflow using local AI models for sensitive data and public chatbots for general tasks
- ✓ Master resume customization for specific job postings to improve hiring success rates
- ✓ Learn a repeatable process for transforming any work experience into resume content

Course Details

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

Estimated Time to Completion: 9 hours

Prerequisites: No formal prerequisites; it is recommended that learners have knowledge equivalent to the Introduction to Modern AI course

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 8 learning modules
- 39 lecture videos
- 6 exercises
- 3 hours of engaging video content
- 1 final exam

Course Recognitions: Digital badge

Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Data Science Essentials with Python

Course Overview

Data Science Essentials with Python is a fully interactive, project-based introduction to the data-science workflow. Learners move from writing their very first Python statements to cleaning, analyzing, visualizing and storytelling with real-world datasets, using industry-standard tools such as **Pandas** and **Matplotlib** across six themed chapters and dozens of hands-on projects.

Benefits

- ✓ **Code & data fluency from scratch** – pick up Python syntax plus the core methods for manipulating DataFrames.
- ✓ **Immediate, authentic practice** – every chapter ends with guided and open-ended projects that mirror real analytics tasks.
- ✓ **Visualization confidence** – build bar, scatter and multi-line plots that communicate insights clearly.
- ✓ **Introduction to statistical modeling** – fit and interpret simple linear models and test data-driven hypotheses.
- ✓ **Portfolio-ready work** – finish with complete notebooks you can share with instructors or employers.

Course Details

Target Audience: Aspiring data scientists, university & advanced high-school STEM/business students, and professionals who need a modern entry point to working with data.

Estimated Time to Completion: ~40–50 hours (mix of self-paced content, instructor demos, and project work).

Prerequisites:

No formal prerequisites; prior exposure to Python via Python Essentials 1 can be helpful

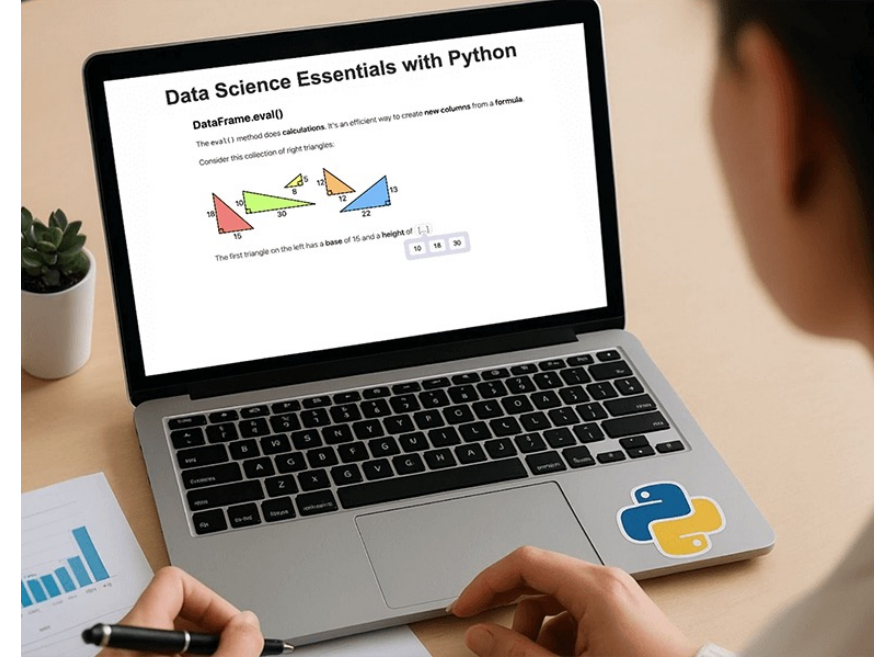
Course Delivery: Instructor-led, Self-paced

Learning Component Highlights:

- Integrated AI assistant to guide you
- Game based learning
- Interactive visual feedback
- 6 course chapters
- 15 guided projects, 5 open-ended projects
- Final Exam

Course Recognitions: Digital badge

Recommended Next Course: Introduction to Modern AI



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Information Technology

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.

- ✓ 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

Certification Alignment: None

Recommended Next Course: Operating Systems Basics, Networking Basics



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Operating System 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.

- ✓ 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: 12 hours

Prerequisites: None
Recommended Preparation: None

Course Delivery: Self-Paced

Learning Component Highlights:

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

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Networking Basics



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Course Overview

This introductory course provides a brief overview of the Linux operating system, including basic installation and configuration of Linux software and the Linux command line. This eight-hour course lays foundational groundwork to progress to additional Linux courses and certifications.

Benefits

The course equips students with foundational Linux skills, essential for various IT roles.

- ✓ Quickly introduces students to the fundamentals of the Linux operating system.
- ✓ Engages students with practical, hands-on exercises.
- ✓ Lays the groundwork for further Linux education and certification pathways.

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: 8 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- 22 Sections
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: None

Recommended Next Course: Linux Essentials or Linux 1



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



Course Overview

This course provides a fast-track to Linux proficiency, with practical command line and virtual machine training. Completing the course prepares students for the Linux Professional Institute Linux Essentials certificate, enhancing students' employability and serving as a gateway to professional certifications.

Benefits

The course equips students with comprehensive Linux knowledge, essential for various IT roles and modern technological advancements.

- ✓ Provides foundational Linux knowledge crucial for IT careers
- ✓ Offers hands-on command line and virtual machine experience
- ✓ Prepares for Linux Essentials certification, boosting your students' job marketability.

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: 70 hours

Prerequisites: None

Course Delivery: Instructor-led & Self-paced

Learning Component Highlights:

- 18 modules
- 18 practice labs
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: Linux Professional Institute Linux Essentials

Recommended Next Course: Linux 1



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



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!

- ✓ 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: Digital Badge

Certification Alignment: CompTIA A+ Certification

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

Requirements

- ASC Alignment: Required
- Instructor Training: Optional
- Physical Equipment: Not Required



Course Overview

This comprehensive course provides a path towards expertise in Linux, the operating system at the core of today's digital industries. Topics include system administration, software development, network engineering, and cybersecurity skills with direct, hands-on experience. This course is designed to prepare for Exam 101 of the LPIC-1 certification. To obtain the LPIC-1 certification, students must pass Exam 101 and 102.

Benefits

The course build hands-on Linux skills and networking experience, paving the way for LPIC-1 certification and IT career advancement.

- ✓ Equips students with practical Linux skills for system administration and various IT roles.
- ✓ Provides hands-on labs for real-world command line and networking experience.
- ✓ Prepare for LPIC-1 certification, enhancing career opportunities in technology.

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: 70 hours

Prerequisites: None

Course Delivery: Instructor-led & Self-paced

Learning Component Highlights:

- 6 modules
- 23 practice labs
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: Linux Professional Institute LPIC-1 (Exam 101)

Recommended Next Course: Linux 2



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



Course Overview

This course builds on Linux 1 to deepen Linux expertise. Topics include shell scripting, user interfaces, system services, networking, and security, equipping students for entry-level tech roles and further specialization. Linux 2 is the second course in a series that leads to LPIC-1 certification. To obtain the Linux Professional Institute LPIC-1 Certification, students must pass Exam 101 and 102. This course is designed to prepare students for Exam 102.

Benefits

The course prepares students for advanced Linux use and the LPIC-1 Exam.

- ✓ Advances students' command line proficiency and introduces shell scripting and system services.
- ✓ Covers essential topics like networking and security to prepare for the LPIC-1 Exam 102.
- ✓ Opens pathways to careers in cloud computing, cybersecurity, and other tech fields.

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: 70 hours

Prerequisites: Linux 1

Course Delivery: Instructor-led & Self-paced

Learning Component Highlights:

- 6 modules
- 18 practice labs
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: Linux Professional Institute LPIC-1 (Exam 102)



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



IT Customer Support Basics

Course Overview

This course prepares learners for entry-level IT support roles. It covers important help desk and customer service skills, including how to effectively communicate with customers, troubleshoot technical issues, and utilize remote tools. The course combines lectures with practical exercises, so that learners gain both theoretical knowledge and hands-on experience.

Benefits

- ✓ **Career-Ready Skills:** Learners will develop IT support skills, preparing them for entry-level positions.
- ✓ **Hands-On Learning:** Learners go through practical exercises and simulations that reinforce theoretical knowledge.
- ✓ **Comprehensive Curriculum:** This is the first course in a learning path that is aligned to the CCST IT Support certification.

Course Details

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

Estimated Time to Completion: 4 Hours

Prerequisites: None

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 2 modules
- Interactive Check Your Understanding activities
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path (coming soon) which aligns to the CCST IT Support Certification.

Recommended Next Course: Operating Systems Support (coming soon)



Requirements

- **ASC Alignment:** Recommended
- **Instructor Training:** Optional
- **Physical Equipment:** Not required

Operating Systems Support

Course Overview

This course blends theoretical knowledge and practical application to prepare your learners for entry-level IT support roles. As an educator, you'll guide learners through modules that cover troubleshooting for Windows, macOS, and mobile operating systems, and introduce key concepts in virtualization and cloud computing. Help your learners develop the expertise to succeed in customer service and technical support.

Benefits

- ✓ **Entry-Level Job Readiness:** Learners will develop the technical and customer service skills employers seek.
- ✓ **Virtualization and Cloud:** Learners will explore concepts in virtualization and cloud services critical for modern IT environments.
- ✓ **Troubleshooting Skills:** Learners will diagnose and fix issues across Windows, macOS, and mobile systems for real-world application.

Course Details

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

Estimated Time to Completion: 10 hours

Prerequisites: IT Customer Support Basics

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- Practical exercises and simulations to reinforce understanding
- 3 modules
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path (coming soon) which aligns to the CCST IT Support Certification.

Recommended Next Course: Security and Connectivity Support (coming soon)



Requirements

- **ASC Alignment:** Recommended
- **Instructor Training:** Optional
- **Physical Equipment:** Not required

Course Overview

This course prepares learners for modern front-line IT support roles. They will diagnose and resolve common issues—from peripheral and shared resource problems to wired and wireless network connectivity—using command-line tools. They will also build a foundation in cybersecurity awareness, covering threat identification, social engineering tactics, and data protection policies. As the third course in the IT Support Specialist Career Path, it prepares students for key objectives of the CCST IT Support certification.

Benefits

- ✓ Job-Ready Technical Skills: Diagnose and resolve connectivity issues, such as troubleshooting network access.
- ✓ Foundation in Modern Cybersecurity: Recognize social engineering tactics and apply best practices to protect sensitive data.
- ✓ Prepare for an IT Career: Develop skills that align with the Cisco CCST-IT Support certification.

Course Details

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

Estimated Time to Completion: 10 hours

Prerequisites:
IT Customer Support Basics
Operating Systems Support

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 3 modules
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path, which aligns to the CCST IT Support Certification.

Recommended Next Course: Hardware and Upgrade Support



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Hardware and Upgrade Support

Course Overview

This course prepares learners to diagnose, repair, and upgrade computer hardware. Students will progress from fundamental safety procedures and component identification to advanced troubleshooting techniques and performing upgrades like installing RAM and storage devices. As the final course in the IT Support Specialist Career Path, it directly aligns with key objectives of the CCST IT Support certification.

Benefits

- ✓ **Gain Job-Ready Skills:** Students will learn hardware troubleshooting, repair, and how to perform PC upgrades.
- ✓ **Prepare for Your Career:** Students can prepare for the CCST IT Support certification and pursue an entry-level role in IT.
- ✓ **Build Technical Confidence:** Students will diagnose and solve common hardware problems on their own.

Course Details

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

Estimated Time to Completion: 6 hours

Prerequisites:

IT Customer Support Basics
Operating Systems Support
Security and Connectivity Support

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 2 modules
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path, which aligns to the CCST IT Support Certification.

Recommended Next Course: Networking Basics or Introduction to Networks



Requirements

- **ASC Alignment:** Recommended
- **Instructor Training:** Optional
- **Physical Equipment:** Not required

Course Overview

This course is designed to prepare learners for entry-level IT support roles. They will gain practical experience with computer hardware, popular operating systems like Windows and macOS, and network troubleshooting. This course aligns with the Cisco Certified Support Technician (CCST) IT Support certification, validating learners' skills for employers. With no prerequisites, it's the perfect first step for anyone looking to enter the IT field.

Benefits

- ✓ **Build Job-Ready Skills:** Go beyond theory with hands-on labs to build, troubleshoot, and manage computer systems and networks.
- ✓ **Prepare for Certification:** Gain the knowledge and confidence to pass the Cisco CCST IT Support exam and earn an industry-recognized credential.
- ✓ **Begin Your IT Journey:** Start your tech career with no prior experience.

Course Details

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

Estimated Time to Completion: 56 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights: [Bullet list. Examples below. Use what is relevant.]

- 10 modules
- 103 labs
- 82 videos
- 40 Check Your Understandings and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: Cisco Certified Support Technician (CCST) IT Support

Recommended Next Course: Networking Basics or Introduction to Networks



Requirements

- **ASC Alignment:** Recommended
- **Instructor Training:** Optional
- **Physical Equipment:** Not required

Programming

Python Essentials 1

Course Overview

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

Benefits

Learning Python opens opportunities in fields like data science, machine learning, web development, and automation, increasing your students' employability. With Python, learners can create their own software apps which fosters their creativity, critical thinking, and hands-on learning.

- ✓ 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: Instructor-led or 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 Alignment: PCEP: Certified Entry-Level Python Programmer

Recommended Next Course: Python Essentials 2



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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 portfolios

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: Instructor-led or 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 Alignment: PCAP – Certified Associate in Python Programming certification

Recommended Next Course: DevNet Associate

Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



JavaScript Essentials 1

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.

- ✓ Students develop fundamental programming knowledge
- ✓ Students prepare for JSE certification exam to earn an industry-recognized certificate
- ✓ Students can pursue more specialized networking and software development skills for a career in tech

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: Instructor-led or Self-paced

Learning Component Highlights:

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

Course Recognitions: Digital badge

Certification Aligned: JSE: Certified Entry-Level JavaScript Programmer

Recommended Next Course: JavaScript Essentials 2



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



Course Overview

Students will learn how to analyze and model real-world problems using object-oriented programming and explore more intricate aspects of JavaScript such as asynchronous programming and functions.

Benefits

JavaScript powers our online experiences. In fact, just about every website around the globe utilizes JavaScript to provide the best user experience possible. Given the global reach of JavaScript, learning the foundations of the language can help your students jumpstart their professional career in tech.

- ✓ Students develop fundamental JavaScript concepts and skills that can be leveraged throughout their career
- ✓ Students prepare for JSA certification exam to earn an industry-recognized certificate
- ✓ Students can highlight their new skills and certificate to apply for tech roles

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: 50 Hours

Prerequisites: JavaScript Essentials 1, or similar knowledge, is recommended

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- 4 modules and 20+ practice and lab activities
- 1 final test

Course Recognitions: Digital badge

Certification Alignment: JSA – Certified Associate JavaScript Programmer

Recommended Next Course: DevNet Associate



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



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

Learning to program in C++ will enhance your students critical thinking and logic skills. The C++ language provides a balanced mix of high-level and low-level language features. As a result, your students will gain a deep understanding of how software interacts with hardware, how data is stored and manipulated in memory, and how operating systems and other system software work.

- ✓ Learn the fundamentals of C++ and prepare for CPE certification
- ✓ Develop analytical skills using C++
- ✓ Explore data types, variables, operators, and more

Course Details

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

Estimated Time to Completion: 42 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 4 modules of interactive instructional content
- Practice labs
- Chapter and final exams

Course Recognitions: Certificate of Completion

Certification Alignment: CPE – C++ Certified Entry-Level Programmer Certification

Recommended Next Course: C++ Essentials 2



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with
The C++ Institute

 **C++ Institute**
Open Education & Development Group

C++ Essentials 2

Course Overview

Learners will build on their knowledge from C++ Essentials 1. They will learn the contrast between procedural and object-oriented programming (OOP) methodologies, class structures, inheritance, polymorphism, and more.

Benefits

C++ is a pivotal language for real-time systems and for developing applications where performance is key, such as video games, simulations, or financial trading platforms. Learning C++ can expose your students to exciting projects and new career opportunities.

Prepare for Careers

- ✓ Deepen your understanding of C++ and prepare for CPA certification
- ✓ Develop analytical and logical skills using C++
- ✓ Learn about object-oriented programming

Course Details

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

Estimated Time to Completion: 42 hours

Prerequisites: C++ Essentials 1

Course Delivery: Instructor-led

Learning Component Highlights:

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

Course Recognitions: Digital Badge

Certification Aligned: CPA – C++ Certified Associate Programmer certification.

Recommended Next Course:
C++ Advanced



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: No
- Physical Equipment Required: No

Developed in collaboration with
The C++ Institute

The C++ Institute logo, featuring a stylized "c++" followed by the word "Institute" in a large, bold, sans-serif font. Below it, the text "Open Education & Development Group" is written in a smaller font.

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

Developing advanced C++ skills can set your students apart from their peers. They'll be better suited for roles that require specialized knowledge, such as systems programming, embedded systems development, and game development. This course is also a steppingstone for your students to become leaders in software.

- ✓ 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
Recommended Preparation: C++ Essentials 1 & 2

Course Delivery: Instructor-led

Learning Component Highlights:

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

Course Recognitions: None

Certification Alignment: CPP: C++ Certified Professional Programmer



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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The C++ Institute

 **C++ Institute**
Open Education & Development Group

Course Overview

Students will learn the basics of the C programming language, including the syntax, semantics, and data types unique to C.

Benefits

Getting started with the C language provides learners with a solid grounding in computer programming. For beginners, understanding C can also make it easier to learn other languages, which often borrow concepts and syntax from C. Additionally, C is widely used in system programming, embedded systems, and high-performance computing—which means programmers that know C are in demand across various industries.

- ✓ Build C programming skills and prepare for CLE C Certified Entry-Level Programmer certification
- ✓ Develop analytical toolkit using C
- ✓ Learn about variables, data types, flow control, and more

Course Details

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

Estimated Time to Completion: 40 hours

Course Delivery: Instructor-led

Learning Component Highlights:

- 5 modules and practice labs
- Interactive activities & quizzes
- 1 final test

Course Recognitions: Digital Badge

Certification Aligned: CLE – C Certified Entry Level Programmer certification

Recommended Next Course: C Essentials 2



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: Optional
- Equipment Required: Not Required

*Developed in collaboration with
The C++ Institute*

Course Overview

This course is designed for learners to explore intermediate C concepts like functions and structures. They will also learn how to work with files and streams and use preprocessor directives and complex declarations.

Benefits

As learners progress to intermediate C programming, they'll tackle more complex problems that require deeper logical thinking and optimization strategies. This level of problem-solving will sharpen your learners' analytical skills.

- ✓ Dive into intermediate C programming and prepare for CLA – C Programming Language Certified Associate certification
- ✓ Develop a programming mindset using C
- ✓ Explore functions, structures, file handling, and preprocessor directives

Course Details

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

Estimated Time to Completion: 30 hours

Prerequisites: C Essentials 1

Course Delivery: Instructor-led

Learning Component Highlights:

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

Course Recognitions: Digital Badge

Certification Aligned: CLA – C Programming Language Certified Associate certification

Recommended Next Course: C Advanced



Requirements

- ASC Alignment: Recommended
- Instructor Training Required: Optional
- Equipment Required: Not Required

*Developed in collaboration with
The C++ Institute*

Course Overview

This course is designed for learners to explore the evolution of C, variable parameter handling, memory and string manipulation, internationalization (I18N), processes and threads, advanced data type operations, and network socket programming.

Benefits

With advanced C skills, your learners will write optimized code that runs faster and uses resources more efficiently, a skill that is valuable in performance-critical applications like gaming engines or scientific computations. Proficiency in C can also set your learners apart in the job market.

- ✓ Develop skills for entry-level programming roles
- ✓ Prepare for CLP certification exam
- ✓ Explore programming challenges like portability issues and undefined behaviors

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

Recommended Preparation: C Essentials 1 & 2

Course Delivery: Instructor-led

Learning Component Highlights:

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

Course Recognitions: None

Certification Alignment: CLP: C Certified Professional Programmer



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Developed in collaboration with
The C++ Institute

The C++ Institute logo, featuring a stylized "c++" and the word "Institute" in a large, bold font, with "Open Education & Development Group" in a smaller font below it.

Course Overview

This course is designed for learners who want to build a strong foundation in CSS for web development. It covers the essentials of CSS, including selectors, properties, layout techniques, responsive design, animations, and accessibility best practices.

Benefits

CSS is an essential tool for creating visually appealing, structured, and responsive web pages. Used by companies worldwide, mastering CSS enables learners to build professional, user-friendly, and adaptive web experiences.

- ✓ Explore the world of web design and front-end development
- ✓ Learn to style and layout web content using CSS
- ✓ Build responsive and accessible web pages
- ✓ Develop a portfolio of projects to showcase your design skills

Course Details

Target Audience: Secondary and two-year college students, aspiring web developers, graduates of HTML Essentials, and anyone interested in the fundamentals of web design.

Estimated Time to Completion: 30-40 hours

Prerequisites:

No prior programming experience is required, but familiarity with HTML basics is recommended. Completion of HTML Essentials or equivalent knowledge will be beneficial.

Course Delivery: Instructor-led, Self-paced

Learning Component Highlights:

- 9 modules and 9 practice labs
- Interactive activities and module quizzes
- Final exam
- WDA™ certification voucher discount

Course Recognitions: Digital badge

Certification Alignment: WDA™ – Certified Associate Web Developer

Recommended Next Course:
JavaScript Essentials 1



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



Course Overview

This course is designed for learners who want to build a strong foundation in web development. It covers the essentials of HTML, including document structure, text formatting, hyperlinks, multimedia integration, forms, and accessibility best practices.

Benefits

HTML is the backbone of the web, used by companies worldwide to create structured and accessible web content. Mastering HTML opens the door to front-end development, web design, and user experience roles.

- ✓ Explore the world of web development
- ✓ Learn to structure and organize web content using HTML
- ✓ Build interactive and accessible web pages
- ✓ Develop a portfolio of projects to showcase your skills

Course Details

Target Audience: Secondary and two-year college students, aspiring web developers, and anyone interested in learning the fundamentals of HTML and web development.

Estimated Time to Completion: 30-40 hours

Prerequisites:
No prior programming experience is required.

Course Delivery: Instructor-led, Self-paced

Learning Component Highlights:

- 6 modules and 6 practice labs
- Interactive activities and module quizzes
- Final exam
- WDE™ certification voucher discount

Course Recognitions: Digital badge

Certification Alignment: WDE™ – Certified Entry-Level Web Developer, WDA™ – Certified Associate Web Developer (after CSS Essentials)

Recommended Next Course:
CSS Essentials



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



Digital Literacy

Course Overview

Beginner friendly course designed to help students grasp the fundamentals of digital tools and technologies, their impact and benefits on society and work, and how to manage a digital identity.

Benefits

Equip your students with the skills to navigate the digital landscape with confidence and make informed decisions that can enhance their personal and professional lives today.

- ✓ Identify common tasks that could be made easier using digital technologies
- ✓ Build skills to search the internet more effectively
- ✓ Learn how to send and read emails
- ✓ Practice creating secure passwords using Password Strength Checker
- ✓ Explore how-to videos to solve basic technical problems, such as slow performance, Wi-Fi or connectivity issues
- ✓ Get introduced to AI (Artificial Intelligence)

Course Details

Target Audience: High school, secondary and general audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 6 learning modules and 25 exercises
- 3 interactive practice activities
- 20 videos
- 1 self-assessment quiz
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: Using Computer and Mobile Devices



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Developed in collaboration with



Using Computer and Mobile Devices

Course Overview

This course covers basic skills in how to use computer and mobile devices, including some features, hardware, operating systems, and software to access online services.

Benefits

Today, there are more mobile-phones than people in the world, highlighting the critical need for digital literacy. Teaching student's practical digital skills lays the groundwork for enhanced employability, earning potential, social inclusion and support for overall health and well-being.

- ✓ Practice using trackpad & mouse.
- ✓ Build confidence with file management on Windows, Android, and using the Cloud.
- ✓ App and Software Management
- ✓ Navigate device connectivity, including wired vs cellular, LAN, Wi-Fi, and Bluetooth.
- ✓ Resolve common technical issues and reduce the environmental impact.
- ✓ Explore Generative AI and IoT technologies.

Course Details

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

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 4 learning modules and 25 exercises
- 8 interactive practice activities
- 20 videos
- 7 problem-solving scenarios
- 1 final exam

Course Recognitions: Digital badge



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Developed in collaboration with



Create Digital Content, Communicate, and Collaborate Online

Course Overview

This course covers the skills needed to create digital documents and the advantages of using digital tools and technologies for effective collaboration and enhanced productivity in hybrid and remote work settings. Explore best practices for common video-conferencing and project management tools.

Benefits

The future of work is here, transforming how and where we work, with nearly 1 in 5 in the worldwide working remotely. Teaching students the fundamentals of collaborative digital tools can boost teamwork, enhance productivity skills, and improve social interactions both inside and outside of the workplace.

- ✓ Teach remote collaboration using tools like Webex, Discord, Asana, Trello and digital whiteboards.
- ✓ Explore digital content types: audio, image, text, video, applications and their formats.
- ✓ Create, edit, and manage digital documents.
- ✓ Word processing tasks: text editing, formatting, layout tools and inserting elements.
- ✓ Email etiquette: when and how to use CC, BCC & Reply All, clarity, conciseness, and proper use of language and tone.

Course Details

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

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 23 videos
- 3 learning modules + 1 summary module
- 5 interactive "Try Me, Show Me" practice activities
- 9 Problem Solving Scenarios
- 1 final exam

Course Recognitions: Digital badge



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Developed in collaboration with



Course Overview

This beginner friendly course equips students with the essential knowledge and skills to protect their digital lives. Students will learn to mitigate online threats, protect their data, and get tips to maintain a healthy digital lifestyle.

Benefits

Empower your students to navigate the digital world safely and cultivate responsible digital citizenship. Equip them with skills to safeguard their digital presence in everyday online interactions.

- ✓ Identify and respond to online threats including phishing and malware.
- ✓ Practice running full computer scans, changing a PIN code in Windows, and updating router firmware.
- ✓ Explore deep fakes, misconceptions about the Dark Web, and safeguards to protect young users online
- ✓ Understand the risks digital technologies pose to our mental and physical health and well-being.
- ✓ Explore Eco-influence, highlighting digital literacy and environmental awareness.

Course Details

Target Audience: High school, secondary and general audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 4 learning modules
- 21 videos with exercises
- 12 problem-solving tips
- 5 interactive practice activities
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: OpenEDG Digital Literacy certification

Recommended Next Course: Introduction to Cybersecurity



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Developed in collaboration with



Professional Skills

Course Overview

This course is part of the English for IT – Basics Learning Collection. It teaches English language in the context of IT and is designed for learners at the A2 (beginner) level. Teach the skills needed to give updates, describe processes, explain causes, make comparisons, and interact clearly in tech settings. Learners progress from A2 to B1, gaining intermediate language skills and preparing for the English for IT B1 GSE 43–49 certification exam.

Benefits

Digital tools and collaborative projects are central to today's tech workplace. Teaching English skills for describing, comparing, and evaluating technology empower students to communicate clearly and make informed decisions in an IT environment.

- ✓ Grammar: countable and uncountable nouns, adjectives, adverbs, comparatives/superlatives, prepositions, and determiners.
- ✓ Vocabulary: hurdle, hitch, smoothly, diligence, automate, variable, proactive set up, and more.
- ✓ Students learn idioms such as "two peas in a pod," "come to life," and "turn things around."
- ✓ Real IT Contexts: Machine Learning, Product Management, DevOps, QA Testing, Game Design, Software Development, Data Analysis, and more.

Course Details

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

Estimated Time to Completion: 20 hours

Prerequisites: Learners should be at A2 level (beginner) English according to the Common European Framework of Reference for Languages (CEFR)

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 10 learning modules
- 8 vocabulary videos
- 8 grammar videos
- 6 listening activities
- 2 reading activities
- 30+ interactive exercises
- 1 course summary
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: B1/GSE 36–49

Recommended Next Course: Advice and Time



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required



Course Overview

This course is part of the English for IT – Basics Learning Collection. It teaches English language in the context of IT and is designed for learners at the A2 (beginner) level. It covers how to use modal verbs to give advice, describe hypothetical bugs, or explain system limitations. Learners progress from A2 to B1, gaining intermediate language skills and preparing for the English for IT B1 GSE 43–49 certification exam.

Benefits

IT professionals must troubleshoot and communicate solutions every day. Teaching students to use English effectively for problem solving, advice, and updates, helps them develop the communication skills needed to succeed in IT.

- ✓ Grammar: phrasal verbs, modal verbs, conditionals, tenses, and imperatives.
- ✓ Vocabulary: algorithm, latency, logs, bandwidth, compression, validation and more.
- ✓ Students learn to give clear advice, offer help and explain instructions and outcomes in common IT-related work scenarios.
- ✓ Real IT contexts: AI Prompting, Software Development, Data Analysis, Tech Support, and Community Management.

Course Details

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

Estimated Time to Completion: 15 hours

Prerequisites: Learners should be at A2 level (beginner) English according to the Common European Framework of Reference for Languages (CEFR)

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 6 learning modules
- 6 grammar videos
- 1 vocabulary video
- 4 reading activities
- 3 listening activities
- 15+ practice exercises
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: B1/GSE 36–49

Recommended Next Course: Needs and Responsibilities



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



Course Overview

This course is part of the English for IT – Basics Learning Collection. It teaches English language in the context of IT and is designed for learners at the A2 (beginner) level. It covers the skills needed to explain responsibilities, compare approaches, and share information in professional tech environments. Learners progress from A2 to B1, gaining intermediate language skills and preparing for the English for IT B1 GSE 43–49 certification exam.

Benefits

Every successful tech organization depends on clear communication about roles, responsibilities, and feedback. Teaching students to explain needs, assign tasks, and describe reactions in English builds the confidence and language skills they need to contribute effectively in professional IT settings.

- ✓ Grammar: passive voice, modal verbs, relative clauses, gerunds and infinitives.
- ✓ Vocabulary: breach, vulnerability, hacker, sprint, agile, waterfall, debugging, functionality, protocol, prototype, and more.
- ✓ Students learn to use accurate vocabulary to talk about devices, coding and digital communication.
- ✓ Real IT contexts: Cybersecurity, Project Management, Networking, Programming, UX/UI Design and Software Development.

Course Details

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

Estimated Time to Completion: 15 hours

Prerequisites: Learners should be at A2 level (beginner) English according to the Common European Framework of Reference for Languages (CEFR)

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 7 learning modules
- 7 grammar videos
- 2 vocabulary videos
- 9 listening activities
- 3 reading activities
- 20+ practice exercises
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: B1/GSE 36–49

Recommended Next Course: People and Quantities



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required



Course Overview

This course is part of the English for IT – Basics Learning Collection. It teaches English language in the context of IT and is designed for learners at the A2 (beginner) level. It covers the skills needed to communicate clearly, respectfully, and effectively in workplace and community tech settings. Learners progress from A2 to B1, gaining intermediate language skills and preparing for the English for IT B1 GSE 36 -49 certification exam.

Benefits

Clear, courteous communication is essential in every work environment. Teach students to discuss teamwork, participation, and resource management to help them develop the language skills needed to collaborate effectively and thrive in diverse IT workplace settings.

- ✓ Grammar: impersonal pronouns, compound pronouns, adjectives, quantifiers and determiners of quantity.
- ✓ Vocabulary: upcoming, phishing, threat, tend, and gadget.
- ✓ Understand how to form adjectives using positive and negative prefixes and suffixes.
- ✓ Students learn how to ask polite and indirect workplace questions using wh-pronouns such as what, which who, whom and whose.
- ✓ Real IT Contexts: Cybersecurity, DevOps & QA, Tech Support, Community Management, Project Management

Course Details

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

Estimated Time to Completion: 15 hours

Prerequisites: Learners should be at A2 level (beginner) English according to the Common European Framework of Reference for Languages (CEFR)

Course Delivery: Self-paced and Instructor-led

Learning Component Highlights:

- 6 learning modules
- 5 grammar videos
- 1 vocabulary video
- 6 reading activities
- 3 listening activities
- 15+ interactive exercises
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: B1/GSE 36-49

Recommended Next Course: English for IT 1



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



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.

- ✓ 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

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

Recommended Preparation: None

Course Delivery: Instructor Led or 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: Career Preparation Workshop



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Developed in collaboration with



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.

- ✓ 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

Recommended Preparation: 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: Creating Compelling Reports



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Creating Compelling Reports

Course Overview

Learning to develop compelling reports is a superpower that will help your students stand out in their professional careers. In this course, your students will learn to captivate their audience and communicate important information. From analyzing data to presenting insights, students will receive hands-on training to learn to develop great reports.

Benefits

This course will teach the skills to create impactful reports that drive team results. Learning to create compelling reports will also help your students gain visibility and recognition in their careers.

- ✓ Help students gain reporting skills that are transferable to any industry
- ✓ Teach students how to shape their reports by making key authoring decisions
- ✓ Support your students in implementing appropriate design choices based on report requirements

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: 4 hours

Prerequisites: None

Recommended Preparation: None

Course Delivery: Instructor Led or Self-Paced

Learning Component Highlights:

- 4 modules
- 24 Interactive activities
- 1 final test

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Discovering Entrepreneurship



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ 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

Prerequisites: None

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

Certification Alignment: None

Recommended Next Course: Launching a Business Venture



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Launching a Business Venture

Course Overview

This course covers a comprehensive mix of entrepreneurial principles essential to launching a business venture. Gain a working knowledge of key business concepts, including lean startup, marketing tools and techniques, and sales and customer service.

Benefits

Technology is evolving fast and continues to fuel startup development. Teaching your students key skills needed to launch tech-enabled ventures can help reshape the future of IT and drive economic growth.

- ✓ Teach with real-world scenarios and challenges entrepreneurs face
- ✓ Demystify the critical steps to advance a business idea from planning to launch
- ✓ Discover the secrets of successful business launches and the top reasons why ventures fail
- ✓ Develop a multi-disciplinary approach to problem-solving, transferable to any career

Course Details

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

Estimated Time to Completion: 20 hours

Prerequisites: None

Recommended Preparation: Discovering Entrepreneurship

Course Delivery: Instructor Led or Self-Paced

Learning Component Highlights:

- 16 modules & quizzes
- 70 practice activities
- 3 immersive interactive scenarios
- 1 final exam

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Managing a Business Venture



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Managing a Business Venture

Course Overview

This course covers strategic business management and operational planning skills essential to managing a business venture. Gain in-depth knowledge of key concepts, including designing a startup plan, finance and accounting strategies, capital acquisition, and building your entrepreneurial dream team.

Benefits

Cultivating a strong business acumen is a hot skill that can add value to any organization. Teaching your students critical management skills can open doors to a multitude of career opportunities and set the stage for entrepreneurial success.

- ✓ Teach accounting basics for entrepreneurs
- ✓ Identify business structure options to understand legal, tax and risk issues
- ✓ Demystify the art of networking to help students build and connect to professional networks
- ✓ Create a Dream Venture Document and explore the Cisco Global Problem Solver Challenge

Course Details

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

Estimated Time to Completion: 20 hours

Prerequisites: None

Recommended Preparation: Discovering Entrepreneurship & Launching A Business Venture

Course Delivery: Instructor Led or Self-Paced

Learning Component Highlights:

- 13 modules & quizzes
- 61 practice activities
- 3 in-depth branching interactives
- 10 Dream Venture Document exercises
- 1 final exam

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Apply AI: Analyze Customer Reviews



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Career Preparation Workshop

Course Overview

In this course, students will dive into career planning, personality assessments, resume development, and interview preparation, equipping them with the tools for successful job hunting. The course also covers social media presence and mentorship, ensuring students stand out in today's digital world.

Benefits

Students will develop crucial skills often overlooked in traditional curriculums, such as resume development, interview preparation, and career planning. These skills will enhance their employability and empower them to navigate the job market with confidence and stand out in a competitive environment.

- ✓ Craft your resume and prepare to confidently navigate job interviews
- ✓ Gain a better understanding of your career goals and plan your career trajectory
- ✓ Manage your social media presence for professional purposes

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: 8 hours

Prerequisites: None

Recommended Preparation: None

Course Delivery: Self-Paced

Learning Component Highlights:

- 8 modules
- 5 Interactive labs
- 1 final quiz

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Engaging Stakeholders for Success



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

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.

- ✓ Installs 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

Recommended Preparation: None

Course Delivery: Instructor-guided or Self-paced

Learning Component Highlights:

- 2 modules
- 1 Cisco Packet Tracer Tutored Activity 1
Cisco Packet Tracer Activity
- 1 assessment

Course Recognitions: None

Certification Alignment: None

Recommended Next Course: Exploring Networking with Cisco Packet Tracer, Exploring IoT with Cisco Packet Tracer



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

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.

- ✓ 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

Recommended Preparation: None

Course Delivery: Instructor-guided or Self-paced

Learning Component Highlights:

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

Course Recognitions: None

Certification Alignment: None

Recommended Next Course: Exploring IoT with Cisco Packet Tracer



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

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.
- ✓ 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

Recommended Preparation: None

Course Delivery: Instructor-guided or Self-paced

Learning Component Highlights:

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

Course Recognitions: None

Certification Alignment: None

Recommended Next Course: Exploring Networking with Cisco Packet Tracer



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

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