STUDENT PROSPECTUS 2026

Reignite hope through digital empowerment

Reignite hope and address socio economic transformation through digital empowerment.

89 courses described	**7** subject areas	**53** courses aligned to a certification	**5** academies, four in person and one online

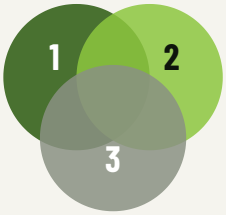
ABOUT US

About Digital Skills Africa

Digital Skills Africa is a non-profit company (NPC) established to reignite hope and address socio economic transformation through digital empowerment.

- We focus on 3 pillars of human development, all contributing towards making an impact in society.
- Our key mandate is to empower all disadvantaged people with career possibilities through digital skills aligned to digital transformation.
- We partner with global industry leading tech companies to bring world class, accredited and certified digital training content to local communities.
- We align with the United Nations Sustainable Development Goals (SDG) to transform Africa.

Our key pillars of development



1 **Moral reasoning (SQ)**
A higher dimension of intelligence that activates the qualities and capabilities of the authentic self (or the soul).

2 **Intellectual (IQ)**
A measure of a person's reasoning ability.

3 **Emotional (EQ)**
The ability to understand, use, and manage your own emotions in positive ways to relieve stress, communicate effectively, empathize with others, overcome challenges and defuse conflict.

OUR REASON

Why was Digital Skills Africa established?

Reduce poverty

Aligned to the SDGs and South Africa's Vision 2030 (NDP). Addressing the triple challenge of poverty, unemployment and inequality, and providing platforms to access digital skills for the previously disadvantaged.

Reduce unemployment

South Africa's total unemployment is estimated at around 30% or more. Factor in the economically inactive population and the number escalates to 40% or more. It becomes more alarming when you consider that 50% or more of the youth in South Africa are unemployed.

Mentorship

All DSA founding members grew up with the struggle of inequality. They stayed the course, built successful careers in the tech industry and decided it was time to give back.

Industry partnership

Digital Skills Africa will focus on partnering with the tech industry to build digital training labs, innovation centres and incubation labs. The aim is to give disadvantaged community members a technical certification that provides them with an equal opportunity to get a meaningful job.

WHAT WE ARE WORKING TOWARDS

Our goals

01 Play an active role in reducing poverty, unemployment and inequality

02 Empowering all people with career possibilities

03 Bringing best-in-class, global technology standards locally

04 Educating for today and tomorrow

05 Providing critical digital skills irrespective of education background

06 Ongoing access for students to reskill and upskill for jobs of the future

OUR TRAINING CONTENT

Cisco Networking Academy

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. Course information in this prospectus follows the Academy's Learning Portfolio Overview of 24 October 2026.

Types of learning offerings

Module	Course	Career path	Learning collection
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.	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.	A group of courses or modules to build knowledge on a topic. A clear progression to prepare learners with the skills and knowledge needed for a specific job role and industry certification.	Complements a career path to develop additional breadth of knowledge, or stands on its own for delving into a topic. Learners gain transferable skills for a variety of job roles.

Flexible course delivery

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

Instructor-led. Teaching content, activities and labs led by an instructor. Great for in-class, virtual, or hybrid learning.

Industry-recognized credentials

Digital badges. Most courses or career paths include a digital badge, which verifies that a learner has met the criteria to earn it. Badges issued by Cisco are completely free and easy to share on a resume, website, or social media.

Certifications. The portfolio prepares learners for industry certifications in cybersecurity, networking, programming, and even English for IT. Exam discounts are available for select certifications for qualifying students.

SKILLS TO JOBS CURRICULUM

A comprehensive portfolio

Seven subject areas, from a first look at technology through to professional-level certification. Pick one to see its courses.



Cybersecurity

17 courses, Introductory to Intermediate



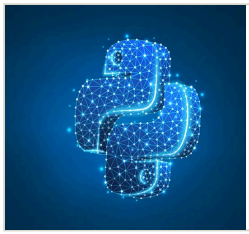
Networking

15 courses, Introductory to Advanced



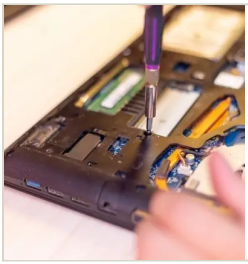
AI & Data Science

15 courses, Introductory to Intermediate



Programming

12 courses, Beginner to Advanced



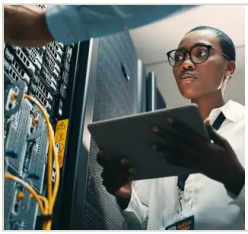
Information Technology

12 courses, Introductory to Intermediate



Digital Literacy

4 courses, Introductory



Professional Skills

11 courses, Beginner to Intermediate



Cisco Packet Tracer courses

3 courses

Four levels

Introductory
11 courses

Beginner
43 courses

Intermediate
27 courses

Advanced
4 courses

Career paths and learning collections

A path is a set of courses taken in order. These are the ones in the portfolio, with the certification each aligns to as stated in the course pages.

Junior Cybersecurity Analyst career path

1. Endpoint Security
2. Network Defense
3. Cyber Threat Management

Aligns to the CCST Cybersecurity certification.

Network Technician career path

1. Networking Basics
2. Networking Devices and Initial Configuration
3. Network Addressing and Basic Troubleshooting
4. Network Support and Security

Aligns to the Cisco Certified Support Technician (CCST) Networking certification.

IT Support Specialist career path

1. IT Customer Support Basics
2. Operating Systems Support
3. Security and Connectivity Support
4. Hardware and Upgrade Support

Aligns to the CCST IT Support certification. The overview marks IT Customer Support Basics and Operating Systems Support as coming soon.

Cybersecurity Defense Analyst career path

1. The Cybersecurity Landscape
2. Understanding Threats and Attacks
3. Security Operations and the Defense Analyst
4. Introduction to Splunk
5. Data and Tools for Defense Analysts
6. The Art of Investigation
7. SOC Essentials: Investigating with Splunk
8. SOC Essentials: Introduction to Threat Hunting

Aligns to the Splunk Certified Cybersecurity Defense Analyst certification.

Digital Literacy learning collection

1. Digital Awareness
2. Using Computer and Mobile Devices
3. Create Digital Content, Communicate, and Collaborate Online
4. Digital Safety and Security Awareness

Digital Safety and Security Awareness lists the OpenEDG Digital Literacy certification.

English for IT Basics learning collection

1. English for IT: Describing and Comparing
2. English for IT: Advice and Time
3. English for IT: Needs and Responsibilities
4. English for IT: People and Quantities

The four courses list B1 / GSE 36-49 certification alignment. English for IT 1 and 2 then aligns to the English for IT B2 / GSE 59-75 exam.

COURSE CATALOGUE

Find a course

Tap a course to see what it covers, who it is for, how long it takes and what you need.



Cybersecurity

17 courses, Introductory to Intermediate

17 courses

Introduction to Cybersecurity

6 hours · Self-paced and Instructor-led

Introductory | Certification aligned

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:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Networking Basics

CERTIFICATION ALIGNMENT

This course is part of the Junior Cybersecurity Analyst Career Path, which aligns to the CCST Cybersecurity certification.

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

REQUIREMENTS

Physical Equipment	**Not Required**

Cybersecurity Essentials

70 hours · Instructor-led

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
CyberOps Associate

CERTIFICATION ALIGNMENT
CCST Cybersecurity

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Endpoint Security

27 hours · Instructor-led or Self-paced

Beginner | Certification aligned | Junior Cybersecurity Analyst path

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. Learn the foundational knowledge used in the workplace as a Cybersecurity Technician.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Network Defense

CERTIFICATION ALIGNMENT
CCST Cybersecurity

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Network Defense

27 hours · Instructor-led or Self-paced

Beginner | Certification aligned | Junior Cybersecurity Analyst path

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Cyber Threat Management

CERTIFICATION ALIGNMENT
CCST Cybersecurity

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Cyber Threat Management

16 hours · Instructor-led or Self-paced

Beginner | Certification aligned | Junior Cybersecurity Analyst path

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
CyberOps Associate

CERTIFICATION ALIGNMENT
CCST Cybersecurity Certification

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

CyberOps Associate

70 hours · Instructor-led

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Network Security, Ethical Hacker

CERTIFICATION ALIGNMENT

Cisco Certified Cybersecurity Associate

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Network Security

70 hours · Instructor-led

Intermediate

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

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

CyberOps Associate

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Required**

Industrial Cybersecurity Essentials

25 hours · Instructor-led & Self-Paced Through an Academy

Beginner

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

Build 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.

WHAT LEARNERS GAIN

- Discover the importance of cybersecurity in an industrial context and how cyber-attack occur.
- Learn 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Ethical Hacker

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Ethical Hacker

70 hours · Instructor-led or Self-paced

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
CyberOps Associate, Network Security

CERTIFICATION ALIGNMENT
Cisco Certificate in Ethical Hacking

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

The Cybersecurity Landscape

3 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Not Available

RECOMMENDED NEXT COURSE
Understanding Threats and Attacks

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Splunk.

Understanding Threats and Attacks

4 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Not Available

RECOMMENDED NEXT COURSE

Security Operations and the Defense Analyst

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with Splunk.

Security Operations and the Defense Analyst

2 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Not Available

RECOMMENDED NEXT COURSE

Introduction to Splunk

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with Splunk.

Introduction to Splunk

1 hour · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Not Available

RECOMMENDED NEXT COURSE

Data and Tools for Defense Analysts

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with Splunk.

Data and Tools for Defense Analysts

4 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Not Available

RECOMMENDED NEXT COURSE
The Art of Investigation

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Splunk.

The Art of Investigation

6 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Not Available

RECOMMENDED NEXT COURSE
SOC Essentials: Investigating with Splunk

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Splunk.

SOC Essentials: Investigating with Splunk

2.5 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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 SOCs handle complex security events.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Not Available

RECOMMENDED NEXT COURSE
SOC Essentials: Introduction to Threat Hunting

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with Splunk.

SOC Essentials: Introduction to Threat Hunting

5.5 hours · Self-paced and Instructor-led

Intermediate | Certification aligned | Cybersecurity Defense Analyst path

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:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Not Available

RECOMMENDED NEXT COURSE
Ethical Hacker

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

- 5 learning modules
- Interactive activities
- 1 final quiz

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with Splunk.



Networking

15 courses, Introductory to Advanced

15 courses

Introduction to IoT and Digital Transformation

6 hours · Instructor-led or Self-Paced

Introductory

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Networking Basics

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Networking Essentials

70 hours · Instructor-led

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT CERTIFICATION
Cisco Certified Network Associate (CCNA) or CyberOps Associate

CERTIFICATION ALIGNMENT
Cisco Certified Support Technician (CCST) Networking

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Networking Basics

22 hours · Instructor-led and Self-paced

Beginner | Certification aligned | Network Technician path

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

Learning basic networking concepts is essential for developing IT skills and prepares you for a wide variety of IT career paths.

WHAT LEARNERS GAIN

- ✓ Configure a wireless router and wireless host to connect to the internet
- ✓ Learn 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Networking Devices and Initial Configuration

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Networking Devices and Initial Configuration

22 hours · Instructor-led and Self-paced

Beginner | Certification aligned | Network Technician path

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

WHAT LEARNERS GAIN

- ✓ Learn 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Network Addressing and Basic Troubleshooting

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Network Addressing and Basic Troubleshooting

14 hours · Instructor-led and Self-paced

Beginner | Network Technician path

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

Learn 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 you for a wide variety of IT careers paths.

WHAT LEARNERS GAIN

- ✓ 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.
- ✓ Learn 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

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not Required

Network Support and Security

12 hours · Instructor-led and Self-paced

Beginner | Certification aligned | Network Technician path

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.

WHAT LEARNERS GAIN

- ✓ Learn 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
CCNA: Introduction to Networks

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not Required

CCNA: Introduction to Networks (ITN)

70 hours · Instructor-led

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
CCNA: Switching, Routing, and Wireless Essentials (SRWE)

CERTIFICATION ALIGNMENT
Cisco Certified Networking Associate

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Required**

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

70 hours · Instructor-led

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
CCNA: Enterprise Networking, Security, and Automation (ENSA)

CERTIFICATION ALIGNMENT
Cisco Certified Networking Associate

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Required**

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

70 hours · Instructor-led

Intermediate | Certification aligned

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).

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
CCNP Enterprise: Core Networking (ENCOR)

CERTIFICATION ALIGNMENT
Cisco Certified Networking Associate

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Required**

CCNP Enterprise: Core Networking (v9)

70 hours · Instructor-led

Advanced

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
CCNP Enterprise Advanced Routing

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

REQUIREMENTS

Physical Equipment	**Required**

CCNP Enterprise: Advanced Routing (v9)

70 hours · Instructor-led

Advanced

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
DevNet Associate

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

REQUIREMENTS

Physical Equipment	**Required**

DevNet Associate

70 hours · Instructor-led

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

CCNA, CCNP Enterprise, or CyberOps Associate

CERTIFICATION ALIGNMENT

Cisco Certified DevNet Associate

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

REQUIREMENTS

Physical Equipment	**Not Required**

Industrial Networking Essentials

35 hours · Self-paced (exclusively through participating academies) and Instructor-led

Beginner

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

Build 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.

WHAT LEARNERS GAIN

- ✓ Discover the benefits and key considerations of IT and OT integration.
- ✓ Learn 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Additional courses coming soon.

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Industrial IoT and Control Systems in Manufacturing

15 hours · Instructor-led & Self-Paced at an academy

Beginner

COURSE OVERVIEW

Explore how Industrial Control Systems (ICS) and Industrial Internet of Things (IoT) 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

Build 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.

WHAT LEARNERS GAIN

- Discover how Industrial Control Systems (ICS) enable efficient, reliable and safe operations.
- Learn 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Industrial Cybersecurity Essentials

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Industrial IoT and Control Systems in Energy

15 hours · Instructor-led & Self-Paced at an academy

Beginner

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

Build 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.

WHAT LEARNERS GAIN

- Discover the benefits and key roles of Industrial Control Systems (ICS) and Smart Grid technologies.
- Learn process automation and Supervisory Control and Data Acquisition (SCADA). architectures for electric power systems.
- Learn 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Industrial Cybersecurity Essentials

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**



AI & Data Science

15 courses, Introductory to Intermediate

15 courses

Introduction to Data Science

6 hours · Self-paced

Introductory

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Data Analytics Essentials

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Introduction to Modern AI

6 hours · Self-paced and Instructor-led

Introductory

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. Learning practical AI skills can foster innovation and enhance your future AI readiness.

WHAT LEARNERS GAIN

- ✓ Write effective chatbot prompts.
- ✓ Learn 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

COURSE RECOGNITIONS

Digital badge

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

REQUIREMENTS

Physical Equipment	**Not Required**

Data Analytics Essentials

30 hours · Self-paced

Intermediate

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Python Essentials 1

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

REQUIREMENTS

Physical Equipment	**Not Required**

AI Fundamentals: Foundations for Understanding AI

9 hours · Self-paced

Beginner

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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

AI Fundamentals: Language and Vision in AI

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

AI Fundamentals: Language and Vision in AI

10 hours · Self-paced

Beginner

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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Apply AI: Analyze Customer Reviews

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Prompt Like an Engineer

9 hours · Self-paced and Instructor-led

Beginner

COURSE OVERVIEW

This course teaches students to apply an engineering mindset to working with AI, designing, iterating, verifying, and reusing prompts as a repeatable process. Rather than treating AI as a black box, students learn what happens "inside the chatbot" and act as the director of a team of human and software-based "workers." Students learn to decompose tasks, build effective prompts, manage data privacy, and evaluate AI outputs for accuracy and alignment. The human-centered approach emphasizes that the learner stays in the lead and remains accountable for the quality of their work, making this course ideal for teaching responsible, professional AI use.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- Apply a structured, repeatable workflow to design, iterate, verify, and reuse prompts
- Build a privacy-conscious workflow, choosing between local AI models for sensitive data and cloud chatbots for general tasks
- Master prompt engineering patterns including few shot examples, chain of thought, prompt chaining, and multi-expert panels

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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Build your Resume with AI

LEARNING COMPONENT HIGHLIGHTS

- 7 learning lessons
- 35 lecture videos
- 4+ hours of engaging video content
- 1 final exam

REQUIREMENTS

Physical Equipment	**Not Required**

Build your Resume with AI

9 hours · Self-paced and Instructor-led

Beginner

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:

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital badge

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Find Insights with AI

6 hours · Self-paced and Instructor-led

Beginner

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital badge

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Core Generative AI Skills

7 hours · Self-paced and Instructor-led

Beginner

COURSE OVERVIEW

This course introduces learners to generative AI and how it can support business and professional work. Learners explore foundational concepts, including common AI models, tools, capabilities, and limitations. They practice how AI can assist with writing, brainstorming, research, content creation, and project work. Through a practical business scenario, learners examine how AI can help create quality content under tight deadlines while still requiring human review and responsible judgment. Note: This is the first course in the Cisco AI Business Practitioner (AIBIZ) learning collection.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- Identify practical ways AI can support work and business tasks
- Recognize when to use large language models, image generators, and other AI tools
- Understand key AI limitations, including hallucinations, bias, and outdated information
- Practice responsible AI use through human review and critical evaluation

COURSE DETAILS

TARGET AUDIENCE

Secondary/vocational, and college/university learners; early-career learners; and professionals new to generative AI

ESTIMATED TIME TO COMPLETION

7 hours

PREREQUISITES

No formal prerequisites

COURSE DELIVERY

Self-paced and Instructor-led

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Optimizing Generative AI

LEARNING COMPONENT HIGHLIGHTS

- 5 modules on GenAI essentials, toolkits, prompting, content generation, and ethics/security.
- Covers common AI model types, including LLMs, diffusion models, audio/code models, and multimodal AI.
- Applies AI across 4 business functions: customer support, marketing, research, and project management.
- 1 final exam (Post-Assessment)

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Cisco U..

Optimizing Generative AI

7 hours · Self-paced and Instructor-led

Beginner

COURSE OVERVIEW

This course helps learners improve the quality, accuracy, and usefulness of the results they get from generative AI tools. Learners evaluate AI-generated text, images, and insights for errors, bias, and unsupported claims, then decide when to revise an output or start again. They also build advanced prompting skills by breaking complex tasks into smaller steps, guiding AI through multi-step workflows, and creating prompts that produce clearer and more targeted results. The course also introduces ways to use AI for data analysis, research, brainstorming, and connecting AI capabilities to tools through APIs. Note: This is the second course in the Cisco AI Business Practitioner (AIBIZ) learning collection.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- Evaluate AI-generated content for accuracy, bias, and quality
- Use advanced prompting techniques for professional tasks
- Build multi-step AI workflows for research, analysis, brainstorming, and professional work
- Understand basic API concepts and how AI can connect with other tools

COURSE DETAILS

TARGET AUDIENCE

Secondary/vocational, and college/university learners; early-career learners; and professionals new to generative AI

ESTIMATED TIME TO COMPLETION

7 hours

PREREQUISITES

Start with Core Generative AI Skills, which is the first course in the AIBIZ learning collection.

COURSE DELIVERY

Self-paced and Instructor-led

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

AI Power User Launchpad

LEARNING COMPONENT HIGHLIGHTS

- 5 modules on output evaluation, advanced prompting, data analysis, research/brainstorming, and APIs.
- Evaluate AI outputs across text and images.
- Build advanced workflows using multi-step prompts, few-shot prompting, and chain-of-thought techniques.
- Explain AI integration through the 2-part API request-response cycle.
- 1 final exam (Post-Assessment)

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Cisco U..

AI Power User Launchpad

3 hours · Self-paced and Instructor-led

Beginner

COURSE OVERVIEW

This course helps learners use their AI skills in projects, team workflows, and leadership situations. Learners move from using AI for individual tasks to bringing AI into team, organizational, and professional settings. Learners develop an AI leadership action plan that includes identifying AI opportunities, understanding team needs, planning a focused AI pilot, and communicating the value of AI to others. They also explore team readiness, change management, training, governance, risk, data security, and responsible use. Note: This is the third and final course in the Cisco AI Business Practitioner (AIBIZ) learning collection.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- Identify high-value AI opportunities in team or project workflows
- Plan a focused AI pilot project with goals, timelines, and success metrics
- Address team concerns and support change with practical communication strategies
- Apply responsible AI principles, governance, data security, and quality review practices

COURSE DETAILS

TARGET AUDIENCE

Secondary/vocational, and college/university learners; early-career learners; and professionals new to generative AI

ESTIMATED TIME TO COMPLETION

3 hours

PREREQUISITES

Start with Core Generative AI Skills and Optimizing Generative AI, which are the first two courses in the AIBIZ learning collection.

COURSE DELIVERY

Self-paced and Instructor-led

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Prompt Like an Engineer

LEARNING COMPONENT HIGHLIGHTS

- 2 leadership modules moving learners from individual AI use to team and organizational adoption
- Includes a 20-step AI Leadership Action Plan lab covering roadmap, stakeholders, pilot, KPIs, and communication.
- Uses a 5-phase proposal-to-pilot framework: value case, change, pilot, governance, and executive communication.
- 1 final exam (Post-Assessment)

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with Cisco U..

Data Science Essentials with Python

~40–50 hours (mix of self-paced content, instructor demos, and project work) · Instructor-led, Self-paced

Intermediate

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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Introduction to Modern AI

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

REQUIREMENTS

Physical Equipment	**Not required**

AI Technical Practitioner Foundations

6 hours · Instructor-led

Intermediate | Certification aligned

COURSE OVERVIEW

This course introduces learners to generative AI for technical work. Learners explore the generative AI ecosystem, build an AI toolkit, and practice prompt engineering for technical precision. They also learn generative AI security and privacy fundamentals. Through technical examples and activities, learners examine how AI can support tasks such as technical communication, research, documentation, and problem solving. The course emphasizes human review, data protection, and responsible AI use. Note: This is the first course in the Cisco AI Technical Practitioner (AITECH) series.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- ✓ Identify AI tools that can support technical tasks and workflows
- ✓ Create clearer prompts for more useful technical AI outputs
- ✓ Recognize AI security, privacy, and data protection considerations
- ✓ Apply human review and responsible AI practices when using AI tools

COURSE DETAILS

TARGET AUDIENCE

Secondary/vocational, and college/university technical learners; early-career technical professionals; and technical professionals new to AI.

ESTIMATED TIME TO COMPLETION

6 hours

PREREQUISITES

No formal prerequisites

COURSE DELIVERY

Instructor-led

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Optimizing Generative AI for Technical Work

CERTIFICATION ALIGNMENT

Cisco AI Technical Practitioner

LEARNING COMPONENT HIGHLIGHTS

- ✓ 4 modules covering the Generative AI ecosystem, AI toolkits, prompt engineering, and responsible AI use
- ✓ 5 elements of the S.C.O.P.E. framework help learners construct prompts
- ✓ 1 final exam (Post-Assessment)

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Cisco U..

Optimizing Generative AI for Technical Work

5 hours · Instructor-led

Intermediate | Certification aligned

COURSE OVERVIEW

This course helps learners improve the quality, reliability, and usefulness of generative AI results for technical tasks. Learners practice debugging and correcting AI-generated outputs, including inaccurate information, weak responses, and results that require refinement. The course also covers advanced prompting strategies for complex tasks. Learners also explore AI-powered discovery and synthesis to support research, information gathering, analysis, and idea development. Note: This is the second course in the Cisco AI Technical Practitioner (AITECH) series.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- ✓ Identify hallucinations, factual errors, unsupported claims, and weak AI outputs
- ✓ Apply advanced prompting strategies for multi-step technical tasks
- ✓ Improve AI-generated results through refinement and critical review
- ✓ Organize AI findings into technical summaries and recommendations

COURSE DETAILS

TARGET AUDIENCE

Secondary/vocational, and college/university technical learners; early-career technical professionals; and technical professionals new to AI.

ESTIMATED TIME TO COMPLETION

5 hours

PREREQUISITES

It's recommended to complete AI Technical Practitioner Foundations or have equivalent knowledge.

COURSE DELIVERY

Instructor-led

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Advanced Generative AI Skills

CERTIFICATION ALIGNMENT

Cisco AI Technical Practitioner

LEARNING COMPONENT HIGHLIGHTS

- ✓ 3 modules focused on correcting AI output, advanced prompting, and AI-powered research and synthesis
- ✓ 3 phases of the D.E.S. framework help learners design multi-step prompts for complex technical problems
- ✓ 1 final exam (Post-Assessment)

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Cisco U..

Advanced Generative AI Skills

5 hours · Instructor-led

Intermediate | Certification aligned

COURSE OVERVIEW

This course builds advanced generative AI skills for technical environments. Learners explore how AI can support software engineering, data engineering and exploration, model customization, workflow automation, and agentic AI. The course also introduces ways to adapt AI for specialized technical needs. Learners examine practical considerations for building and using AI-powered solutions, including reliability, security, cost management, human oversight, and responsible use. Note: This is the third and final course in the Cisco AI Technical Practitioner (AITECH) series.

BENEFITS

By taking this course, students will gain the following:

WHAT LEARNERS GAIN

- ✓ Identify hallucinations, factual errors, unsupported claims, and weak AI outputs
- ✓ Apply advanced prompting strategies for multi-step technical tasks
- ✓ Improve AI-generated results through refinement and critical review
- ✓ Organize AI findings into technical summaries and recommendations

COURSE DETAILS

TARGET AUDIENCE

Secondary/vocational, and college/university technical learners; early-career technical professionals; and technical professionals new to AI.

ESTIMATED TIME TO COMPLETION

5 hours

PREREQUISITES

It's recommended to complete AI Technical Practitioner Foundations and Optimizing Generative AI for Technical Work.

COURSE DELIVERY

Instructor-led

COURSE RECOGNITIONS

Digital badge

CERTIFICATION ALIGNMENT

Cisco AI Technical Practitioner

LEARNING COMPONENT HIGHLIGHTS

- ✓ 4 modules covering AI-driven software engineering, data exploration, AI model customization, and agentic AI
- ✓ 6 software development lifecycle phases demonstrate how AI can support planning, design, implementation, testing, deployment, and maintenance
- ✓ 1 final exam (Post-Assessment)

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Cisco U..



Programming

12 courses, Beginner to Advanced

12 courses

Python Essentials 1

30 hours · Instructor-led or Self-paced

Beginner | Certification aligned

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 employability. With Python, learners can create their own software apps which fosters their creativity, critical thinking, and hands-on learning.

WHAT LEARNERS GAIN

- ✓ Explores the world of computer programming and the careers it offers
- ✓ Develops coding skills using Python
- ✓ Covers 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Python Essentials 2

CERTIFICATION ALIGNMENT

PCEP: Certified Entry-Level Python Programmer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not Required

Developed in collaboration with Python Institute.

Python Essentials 2

40 hours · Instructor-led or Self-paced

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
DevNet Associate

CERTIFICATION ALIGNMENT
PCAP - Certified Associate in Python Programming certification

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

Developed in collaboration with Python Institute.

JavaScript Essentials 1

40 hours · Instructor-led or Self-paced

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
JavaScript Essentials 2

CERTIFICATION ALIGNMENT
JSE: Certified Entry-Level JavaScript Programmer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

Developed in collaboration with JS Institute.

JavaScript Essentials 2

50 hours · Instructor-led or Self-paced

Intermediate | Certification aligned

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 you jumpstart your professional career in tech.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
DevNet Associate

CERTIFICATION ALIGNMENT
JSA, Certified Associate JavaScript Programmer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment **Not required**

Developed in collaboration with JS Institute.

C++ Essentials 1

42 hours · Instructor-led

Beginner | Certification aligned

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 critical thinking and logic skills. The C++ language provides a balanced mix of high-level and low-level language features. As a result, you 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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Certificate of Completion

RECOMMENDED NEXT COURSE
C++ Essentials 2

CERTIFICATION ALIGNMENT
CPE, C++ Certified Entry-Level Programmer Certification

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment **Not required**

Developed in collaboration with The C++ Institute.

C++ Essentials 2

42 hours · Instructor-led

Intermediate | Certification aligned

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 you 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
C++ Advanced

CERTIFICATION ALIGNMENT
CPA, C++ Certified Associate Programmer certification.

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment Required	**No**

Developed in collaboration with The C++ Institute.

C++ Advanced

70 hours · Instructor-led

Advanced | Certification aligned

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 you apart from your peers. You will 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 to becoming a leader in software.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
None

CERTIFICATION ALIGNMENT
CPP: C++ Certified Professional Programmer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with The C++ Institute.

C Essentials 1

40 hours · Instructor-led

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
C Essentials 2

CERTIFICATION ALIGNMENT
CLE, C Certified Entry Level Programmer certification

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Equipment Required	Not Required

Developed in collaboration with The C++ Institute.

C Essentials 2

30 hours · Instructor-led

Intermediate | Certification aligned

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 analytical skills.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
C Advanced

CERTIFICATION ALIGNMENT
CLA, C Programming Language Certified Associate certification

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Equipment Required	Not Required

Developed in collaboration with The C++ Institute.

C Advanced

70 hours · Instructor-led

Advanced | Certification aligned

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, you 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 you apart in the job market.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
None

CERTIFICATION ALIGNMENT
CLP: C Certified Professional Programmer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with The C++ Institute.

CSS Essentials

30-40 hours · Instructor-led, Self-paced

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
JavaScript Essentials 1

CERTIFICATION ALIGNMENT
WDA™, Certified Associate Web Developer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Developed in collaboration with JS Institute.

HTML Essentials

30-40 hours · Instructor-led, Self-paced

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

CSS Essentials

CERTIFICATION ALIGNMENT

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

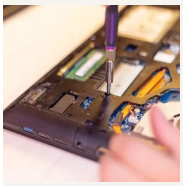
LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

Developed in collaboration with JS Institute.



Information Technology

12 courses, Introductory to Intermediate

12 courses

Computer Hardware Basics

6 hours · Self-paced

Introductory

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Operating Systems Basics, Networking Basics

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

Operating System Basics

12 hours · Self-Paced

Introductory

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Networking Basics

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Linux Unhatched

8 hours · Instructor-led or Self-paced

Introductory

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.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Linux Essentials or Linux 1

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Linux Essentials

70 hours · Instructor-led & Self-paced

Beginner | Certification aligned

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.

WHAT LEARNERS GAIN

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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Linux 1

CERTIFICATION ALIGNMENT

Linux Professional Institute Linux Essentials

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

IT Essentials

70 hours · Instructor-led

Certification aligned

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!

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

CCNA: Introduction to Networking (ITN)

CERTIFICATION ALIGNMENT

CompTIA A+ Certification

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

REQUIREMENTS

Physical Equipment	Not Required

Linux 1

70 hours · Instructor-led & Self-paced

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Linux 2

CERTIFICATION ALIGNMENT
Linux Professional Institute LPIC-1 (Exam 101)

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Linux 2

70 hours · Instructor-led & Self-paced

Intermediate | Certification aligned

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS
Digital badge

CERTIFICATION ALIGNMENT
Linux Professional Institute LPIC-1 (Exam 102)

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

IT Customer Support Basics

4 hours · Instructor-led and Self-paced

Beginner | Certification aligned | Path coming soon | IT Support Specialist path

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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Operating Systems Support (coming soon)

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Operating Systems Support

10 hours · Instructor-led and Self-paced

Beginner | Certification aligned | Path coming soon | IT Support Specialist path

COURSE OVERVIEW

This course blends theoretical knowledge and practical application to prepare you for entry-level IT support roles. You will work through modules that cover troubleshooting for Windows, macOS, and mobile operating systems, and introduce key concepts in virtualization and cloud computing. 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Security and Connectivity Support (coming soon)

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Security and Connectivity Support

10 hours · Instructor-led and Self-paced

Beginner | Certification aligned | IT Support Specialist path

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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Hardware and Upgrade Support

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Hardware and Upgrade Support

6 hours · Instructor-led and Self-paced

Beginner | Certification aligned | IT Support Specialist path

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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Networking Basics or Introduction to Networks

CERTIFICATION ALIGNMENT

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

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

IT Support Essentials

56 hours · Instructor-led

Beginner | Certification aligned

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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Networking Basics or Introduction to Networks

CERTIFICATION ALIGNMENT
Cisco Certified Support Technician (CCST) IT Support

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**



Digital Literacy

4 courses, Introductory

4 courses

Digital Awareness

6 hours · Self-paced and Instructor-led

Introductory | Digital Literacy collection

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

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

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Using Computer and Mobile Devices

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment **Not Required**

Developed in collaboration with OpenEDG.

Using Computer and Mobile Devices

6 hours · Self-paced and Instructor-led

Introductory | Digital Literacy collection

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. Learning practical digital skills lays the groundwork for enhanced employability, earning potential, social inclusion and support for overall health and well-being.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital badge

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with OpenEDG.

Create Digital Content, Communicate, and Collaborate Online

6 hours · Self-paced and Instructor-led

Introductory | Digital Literacy collection

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. Learning the fundamentals of collaborative digital tools can boost teamwork, enhance productivity skills, and improve social interactions both inside and outside of the workplace.

WHAT LEARNERS GAIN

- Learn 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

COURSE RECOGNITIONS

Digital badge

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with OpenEDG.

Digital Safety and Security Awareness

6 hours · Self-paced and Instructor-led

Introductory | Certification aligned | Digital Literacy collection

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

Learn to navigate the digital world safely and cultivate responsible digital citizenship. Build the skills to safeguard their digital presence in everyday online interactions.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Introduction to Cybersecurity

CERTIFICATION ALIGNMENT

OpenEDG Digital Literacy certification

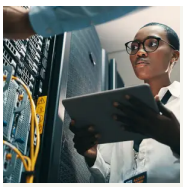
LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with OpenEDG.



Professional Skills

11 courses, Beginner to Intermediate

11 courses

English for IT: Describing and Comparing

20 hours · Self-paced and Instructor-led

Beginner | Certification aligned | English for IT Basics collection

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. Learn 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. Learning English skills for describing, comparing, and evaluating technology helps you communicate clearly and make informed decisions in an IT environment.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS
Digital badge

RECOMMENDED NEXT COURSE
Advice and Time

CERTIFICATION ALIGNMENT

B1/GSE 36-49

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with OpenEDG.

English for IT: Advice and Time

15 hours · Self-paced and Instructor-led

Beginner | Certification aligned | English for IT Basics collection

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. Learning to use English effectively for problem solving, advice, and updates helps you develop the communication skills needed to succeed in IT.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

Needs and Responsibilities

CERTIFICATION ALIGNMENT

B1/GSE 36-49

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Developed in collaboration with OpenEDG.

English for IT: Needs and Responsibilities

15 hours · Self-paced and Instructor-led

Beginner | Certification aligned | English for IT Basics collection

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. Learning to explain needs, assign tasks, and describe reactions in English builds the confidence and language skills you need to contribute effectively in professional IT settings.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

People and Quantities

CERTIFICATION ALIGNMENT

B1/GSE 36-49

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Developed in collaboration with OpenEDG.

English for IT: People and Quantities

15 hours · Self-paced and Instructor-led

Beginner | Certification aligned | English for IT Basics collection

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. Learn to discuss teamwork, participation, and resource management and develop the language skills needed to collaborate effectively and thrive in diverse IT workplace settings.

WHAT LEARNERS GAIN

- 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 an 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

COURSE RECOGNITIONS

Digital badge

RECOMMENDED NEXT COURSE

English for IT 1

CERTIFICATION ALIGNMENT

B1/GSE 36-49

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Developed in collaboration with OpenEDG.

English For IT 1 and 2

40-50 hours · Instructor Led or Self-Paced

Intermediate | Certification aligned

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). Learning the essentials will help you land a job.

WHAT LEARNERS GAIN

- ✓ Students learn to express themselves accurately and confidently with digestible grammar videos
- ✓ Learn 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Career Preparation Workshop

CERTIFICATION ALIGNMENT
Completing both courses align with the English for IT B2 / GSE 59-75 certification exam

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Developed in collaboration with OpenEDG.

Engaging Stakeholders for Success

3 hours · Instructor Led or Self-Paced

Beginner

COURSE OVERVIEW

In this course, you will learn to identify, prioritize, and engage with stakeholders. You 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 you to effectively identify, prioritize and engage with stakeholders for success.

BENEFITS

Learning how to engage with stakeholders is critical to having a successful and long professional career.

WHAT LEARNERS GAIN

- ✓ Help students gain stakeholder skills that are transferable to any industry
- ✓ Learn about common pitfalls when working with stakeholders
- ✓ Practise 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Creating Compelling Reports

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not Required**

Creating Compelling Reports

4 hours · Instructor Led or Self-Paced

Beginner

COURSE OVERVIEW

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

WHAT LEARNERS GAIN

- Help students gain reporting skills that are transferable to any industry
- Learn how to shape their reports by making key authoring decisions
- Implement 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Discovering Entrepreneurship

LEARNING COMPONENT HIGHLIGHTS

- 4 modules
- 24 Interactive activities
- 1 final test

REQUIREMENTS

Physical Equipment	**Not Required**

Discovering Entrepreneurship

20 hours · Instructor Led or Self-Paced

Beginner

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. Learning entrepreneurship fundamentals can help them develop a solutions-oriented approach to challenges in the workplace and in the global market.

WHAT LEARNERS GAIN

- 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Launching a Business Venture

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Launching a Business Venture

20 hours · Instructor Led or Self-Paced

Beginner

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. Learning key skills needed to launch tech-enabled ventures can help reshape the future of IT and drive economic growth.

WHAT LEARNERS GAIN

- Learn 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Managing a Business Venture

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Managing a Business Venture

20 hours · Instructor Led or Self-Paced

Beginner

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. Learning critical management skills can open doors to a multitude of career opportunities and set the stage for entrepreneurial success.

WHAT LEARNERS GAIN

- Learn 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

COURSE RECOGNITIONS
Digital Badge

RECOMMENDED NEXT COURSE
Apply AI: Analyze Customer Reviews

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Career Preparation Workshop

8 hours · Self-Paced

Beginner

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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

Digital Badge

RECOMMENDED NEXT COURSE

Engaging Stakeholders for Success

LEARNING COMPONENT HIGHLIGHTS

- ✓ 8 modules
- ✓ 5 Interactive labs
- ✓ 1 final quiz

REQUIREMENTS

Physical Equipment	Not Required



Cisco Packet Tracer courses

3 courses

3 courses

Getting Started with Cisco Packet Tracer

2 hours · Instructor-guided or Self-paced

COURSE OVERVIEW

This short on-ramp course introduces Cisco Packet Tracer, an innovative network simulation and visualization tool. Covers 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.

WHAT LEARNERS GAIN

- ✓ 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

COURSE RECOGNITIONS

None

RECOMMENDED NEXT COURSE

Exploring Networking with Cisco Packet Tracer, Exploring IoT with Cisco Packet Tracer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	Not required

Exploring Networking with Cisco Packet Tracer

3 hours · Instructor-guided or Self-paced

COURSE OVERVIEW

In this course, learners create and explore a small office network using Cisco Packet Tracer. Learn 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.

WHAT LEARNERS GAIN

- Learn 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

COURSE RECOGNITIONS
None

RECOMMENDED NEXT COURSE
Exploring IoT with Cisco Packet Tracer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Exploring IoT with Cisco Packet Tracer

3 hours · Instructor-guided or Self-paced

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

COURSE RECOGNITIONS
None

RECOMMENDED NEXT COURSE
Exploring Networking with Cisco Packet Tracer

LEARNING COMPONENT HIGHLIGHTS

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

REQUIREMENTS

Physical Equipment	**Not required**

Featured modules

Short, self-paced and available in English.

The Road to Intelligent Machines

AI with Intel Learning Collection: Introduction to Generative AI, Introduction to Responsible AI Skills, Demystify AI and OpenVINO Toolkit

AI Security Nuggets

Exploring Sustainability

A Framework for Sustainability in IT

Introduction to Greenhouse Gas Accounting for IT

Course information is taken from the Cisco Networking Academy Learning Portfolio Overview, 24 October 2026. Course details can change, so check with us before you enrol. IT Essentials is described in the overview but does not appear on its portfolio map, so it carries no level.

PRACTICE

Hands-on tools and interactive experiences to build skills, not just knowledge

Hands-on practice, a key pillar of Networking Academy

- Exciting experiences that make learning feel real
- A faster, more focused path to career-ready skills
- Build your confidence: "I can do this!"
- Developed by learning scientists and subject-matter experts

PRACTICE TOOLS IN THE PORTFOLIO

Labs
Cisco Packet Tracer, virtual machines, remote labs

Interactive learning
Built-in web widgets, games, interactive branching activities

Assessments
Adaptive assessments powered by AI, formative quizzes and exams, summative exams

Packet Tracer courses
Getting Started with Cisco Packet Tracer, Exploring Networking with Cisco Packet Tracer, Exploring Internet of Things with Cisco Packet Tracer

A suite of lab environments

Options ranging from simulation to real equipment accessed remotely.

DIGITAL — **REAL**

- Easy to scale
- Instant replay
- Less setup time and cost
- Real-world devices
- Motivating to use
- Tactile learning

1. **Simulation with Packet Tracer**
2. **Virtual machines**
3. **Remote labs**

Cisco Packet Tracer

Simulation | Cost: Free

OVERVIEW

Cisco Packet Tracer is a powerful simulation and visualization learning environment. Practice building simple and complex networks across a variety of devices and extend beyond routers and switches.

BENEFITS

Learn complex networking concepts without needing complex hardware. Simulation works for labs, games, homework, assessments, competitions and learning from home.

BUILD SKILLS FOR SUCCESS

- Quickly try, experiment, learn, repeat
- Practice teamwork, critical thinking and creative problem-solving skills
- Prepares you for hands-on assessments

USE IT TO

- Create and configure your own networks
- Practice cabling your devices in the rack with Physical Mode
- See how packets travel through your network with Simulation Mode
- Program your own IoT smart solution
- And more!

HOW TO ACCESS

Enroll in the Getting Started with Cisco Packet Tracer course to download the desktop version.

COURSES THAT USE THIS

Networking Essentials

Cybersecurity Essentials | IT Essentials

CCNA | CyberOps Associate

DevNet Associate | CCNP Enterprise

Introduction to Internet of Things (IoT)

IoT Security | Network Security

Virtual Machines (VM)

Virtual | Cost: Free

OVERVIEW

Virtual machines are virtual environments that emulate a computer system. These self-contained virtual environments let you explore systems to the breaking point without causing actual damage.

BENEFITS

Experiment and explore in a low-risk environment. Deliberately test security threats and malware in a safe environment.

BUILD SKILLS FOR SUCCESS

- Hands-on cybersecurity practice
- Get familiar with virtual machines to prepare for on-the-job skills

USE IT TO

- Learn virtual machine technology
- Simulate real-world cybersecurity threat scenarios
- Create opportunities for ethical hacking, security monitoring, analysis, and resolution

HOW TO ACCESS

Free software download from Oracle VirtualBox.

COURSES THAT USE THIS

CCNA | CyberOps Associate

Emerging Technologies Workshop: Model-Driven Programmability

DevNet Associate

Remote equipment: NDG NETLAB+

Remote | Cost: Yes

OVERVIEW

Connect to real hardware through the web. Available through Networking Academy partnerships: NDG NETLAB+ provides cloud-based, remote access to networking equipment and PCs.

BENEFITS

Get on-demand remote access to lab equipment when you need it, without setting anything up yourself.

BUILD SKILLS FOR SUCCESS

- Complete labs from anywhere
- Keep practising when physical hardware is not available

USE IT TO

- Access remote IT equipment through a web browser
- Skip the lab setup time

HOW TO ACCESS

Learn more at the NDG NETLAB+ page for Networking Academy.

COURSES THAT USE THIS

CCNA | CCNP Enterprise

IT Essentials | CyberOps Associate

Network Security

Remote equipment: DevNet Sandbox

Remote | Cost: Free

OVERVIEW

Connect to real hardware through the web. Available through Networking Academy partnerships: Cisco DevNet Sandbox offers packaged labs for software development, testing APIs, training, hackathons, and more.

BENEFITS

Get on-demand remote access to lab equipment when you need it, without setting anything up yourself.

BUILD SKILLS FOR SUCCESS

- ✓ Get experience running your code against live network infrastructure
- ✓ Practice working in a sandbox environment just like on-the-job software developers

USE IT TO

- ✓ Interact with live network infrastructure and programmable devices using real-world Application Programming Interfaces (APIs)

HOW TO ACCESS

Learn more at the Cisco DevNet Sandbox page.

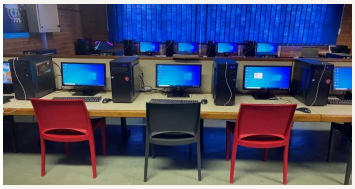
COURSES THAT USE THIS

- Workshop: Experimenting with REST APIs
- Workshop: Model-Driven Programmability
- DevNet Associate

OUR ACADEMIES

Where learners study

Our in-person academies are hybrid. Learners attend on site while mentors dial in to run mentorship sessions. Learners who cannot reach a physical academy can study with our online academy.


The Marsec Digital Skills Academy

Marburg, Port Shepstone, KwaZulu-Natal

ADDRESS
Corner Deepvale and Main Harding Road, Grosvenor, Port Shepstone

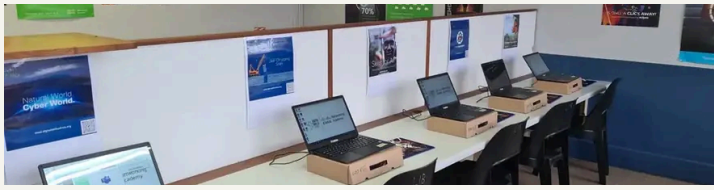
WHO IT SERVES
High school learners and unemployed youth

OPENED
2019

SEATS
20 seats

COURSES
Basic to advanced courses

EQUIPMENT
Desktop computers, networking kit, VSAT internet connection at 50 Mbps, Cisco room kit, projector with a retractable screen, printer






The RA Engar Digital Skills Academy

Marburg, Port Shepstone, KwaZulu-Natal

ADDRESS
1 Oceanview Road, Marburg, Port Shepstone, 4240

WHO IT SERVES
Primary school learners and unemployed youth

OPENED
2023

SEATS
10 to 20 seats

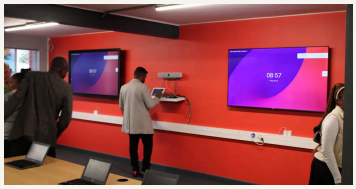
COURSES
Basic to intermediate courses

EQUIPMENT
Laptops, networking kit, fibre internet connection at 300 Mbps, Cisco room kit










The Cortex Hub Digital Skills Academy

East London (KuGompo City), Eastern Cape

ADDRESS
33 Church Street, East London CBD, KuGompo City, 5201

WHO IT SERVES
Unemployed youth and graduates

OPENED
2024

SEATS
15 learners

COURSES
Basic to advanced courses

EQUIPMENT
Laptops and desktop computers, networking kit, fibre internet connection, Cisco room kits

The TSIBA University Digital Skills Academy

Pinelands, Cape Town, Western Cape

OPENED
2024

SEATS
32 seats

COURSES
Basic to advanced courses

EQUIPMENT
Desktop computers, networking kit, fibre internet connection, Cisco room kits

The DSA Online Academy

Our online academy exists for learners who cannot access infrastructure, such as a physical lab or equipment, so they can study from wherever they are. It serves learners in South Africa and across Africa.

ENROLLMENT

Ready to start? Register here

Contact our team to ask for the enrollment form and we will help you get started.

Email info@digitalskillsafrica.org

GET IN TOUCH

Contact information

OFFICES AND SERVICES	CONTACT
General inquiries	info@digitalskillsafrica.org

Office hours

MON TO FRI

08h00 to 17h00

SAT

08h00 to 12h00

DIGITAL SKILLS AFRICA

Digital Skills Africa NPC. Registration No. 2020/914091/08. PBO 930081802.

Student Prospectus 2026. Reignite hope and address socio economic transformation through digital empowerment.

digitalskillsafrica.org