Cisco Networking Academy

Innovate like a technologist. Think like an entrepreneur. Act as a social agent.
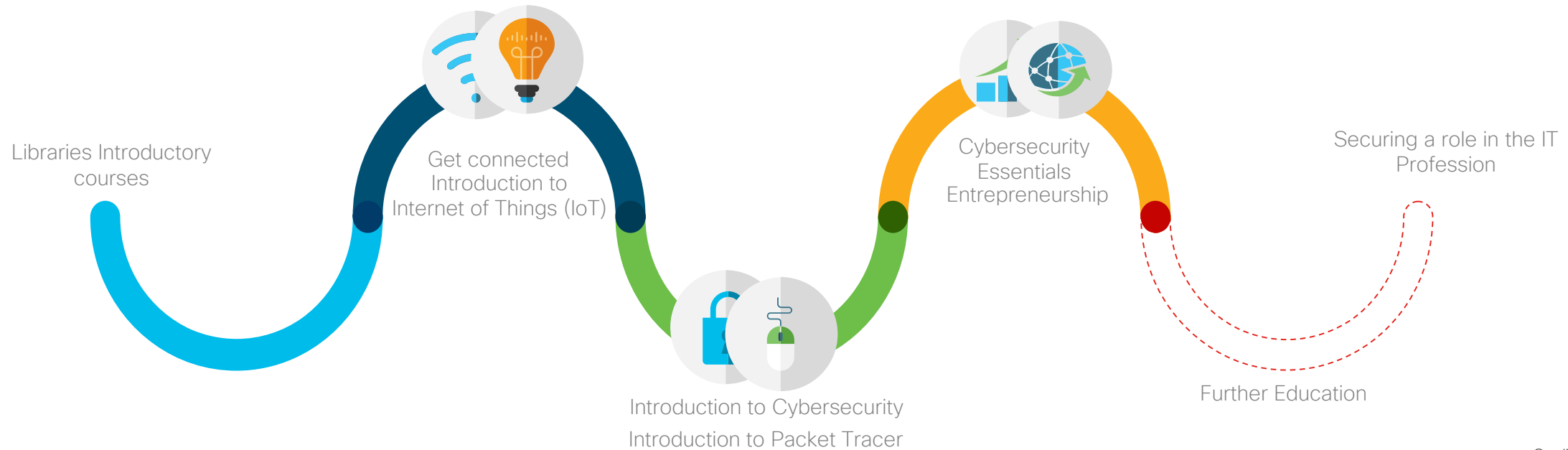
Welcome to Cisco Networking Academy

We are offering everyone the chance to upskill their digital skills or take that first step into the IT profession. Cisco are teaming up with libraries to make available 8 free online courses which are self paced and can be studied either in their local library or from the comfort of their own home

Courses cover a range of relevant content, such as how to improve those important digital literacy skills and how to protect your personal data and privacy online. Students can understand how the digital transformation of business creates new value and new job opportunities. They can even pick up a course to set them on track to grasp one of those new job opportunities. Cisco NetAcad courses are listed below, anyone can enrol in their chosen course, and study time varies from 15 – 70 hours per a course

Digital skills is a journey

Students can start with our basic digital literacy course – *Get Connected,* and develop their skills through more advanced courses
With the potential to further education, studying our career- ready courses and gain a position as a IT professional

Libraries Introductory courses

Get connected
Introduction to
Internet of Things (IoT)

Introduction to Cybersecurity
Introduction to Packet Tracer

Cybersecurity
Essentials
Entrepreneurship

Securing a role in the IT Profession

Further Education

Studied at another institute

UK's digital skills gap

There is an increasing range of job roles where digital skills are needed but supply is not adequate. According to a study released by the British Chambers of Commerce[1]. Three in four UK businesses have reported a digital skills shortage among their employees. But its not just businesses who feel the need for change. At least 1 in 4 workers in OECD countries is already reporting a skills mismatch with regards to the skills demanded by their current jobs[2]. (World Economic Forum)

Cybersecurity is a prime example of a digital skills shortage, Symantec[3] predicts that by 2019 there will be 1.5 million unfilled cybersecurity jobs. There is a very clear mismatch of supply and demand for digital skills. Our courses tackle this issue by matching digital skills with upcoming business needs, we are preparing students for the jobs of tomorrow. They start with the very basic digital literacy skills, then progress to more advance courses preparing students for further education and a job in the IT profession.

Get Connected

Course details

The **Get Connected** course introduces you to basic computer and Internet navigation skills. You'll learn how to:

- Identify different types of computer systems, components, printers, and other devices.
- Understand Microsoft Windows and how to work with files and folders.
- Understand computer networking, how to browse and search the Internet, and how to use email
- Create accounts for Facebook, LinkedIn, and YouTube
- Identify common problems and implement simple solutions for hardware, software, and networks.

Career Pathway

Basic technology skills are essential for anyone who wants to participate and compete in the digital economy.
This course helps you get started in some of the most promising career paths for the future

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Get Connected	
Duration	30 hours
Level	Beginner
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes

Introduction to IoT

Course details

The **Introduction to IoT** course provides an overview of key concepts and challenges related to digital transformation. The course examines the evolution of the Internet and how the interconnection of people, processes, data, and things is transforming every industry

- Learn how digital transformation turns information into action, creating unprecedented economic opportunity.
- Understand how the IoT brings together operational technology and information technology systems.
- Discover how business processes for evaluating and solving problems are being transformed.
- Learn the security concerns that must be considered when implementing IoT solutions.
- Practice what you learn using Cisco Packet Tracer,a network configuration simulation tool.
- Connect to the global Cisco Networking Academy community.

Career Pathway

In the digital economy, IT skills will matter in more job functions than ever before. New jobs will be created to realize the potential of connecting people, processes, data, and things.
From computer science to engineering to information science to management, understanding the IoT will be an advantage for job seekers at all levels
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Introduction to IoT	
Duration	20 hours
Level	Beginner
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes

Introduction to Cybersecurity

Course details

The **Introduction to Cybersecurity** course explores the broad topic of cybersecurity in a way that matters to you. Learn how to protect your personal data and privacy online and in social media, and why more and more IT jobs require cybersecurity awareness and understanding.

- Learn what cybersecurity is and what it means for you personally and professionally.
- Learn how to be safe online by understanding the most common threats, attacks and vulnerabilities.
- Find out how businesses protect their operations from cyber attacks and why jobs are growing.
- Study at your own pace and reinforce your understanding with activities and quizzes.
- Connect with the global Cisco Networking Academy community.

Career Pathway

The demand for cybersecurity experts has grown 3 times faster than any other IT job role, and training a cybersecurity workforce is a priority of many governments.
From confidential company data to personal information, more connections make data more vulnerable to attacks, increasing the demand for professionals with cybersecurity skills.

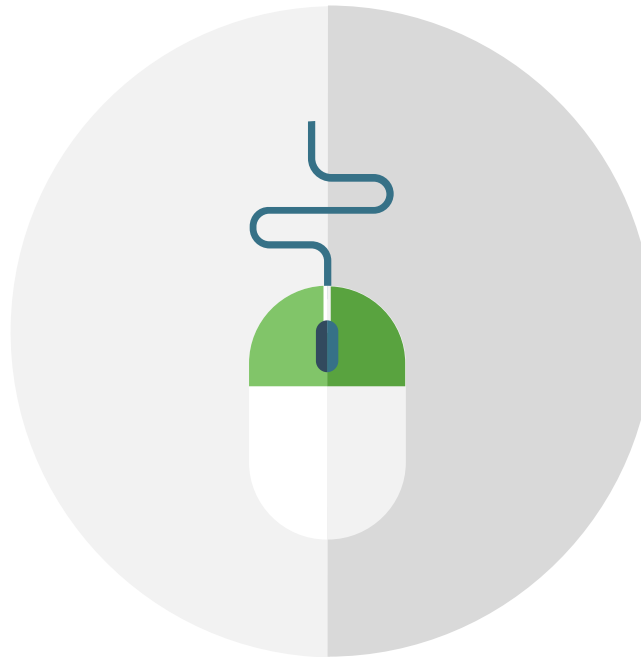| Introduction to Cybersecurity	
Duration	15 hours
Level	Beginner
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes

Introduction to Packet Tracer

Course details

The **Introduction to Packet Tracer** course is designed for beginners with no prior networking knowledge. The self-paced course teaches the basic operations of Cisco Packet Tracer, the robust simulation tool used to visualize networks. Multiple hands-on activities focus on everyday examples including networking and Internet of Things (IoT) exposing learners to important concepts while at the same time reinforcing learnings.

Learn what cybersecurity is and what it means for you personally and professionally.

- Learn the basic operations of Packet Tracer: – File commands, visualization and configuration of networking devices.
- Simulate the interactions of data traveling through the network.
- Learn to visualize the network in logical and physical modes.
- Reinforce your understanding with extensive hands-on networking and IoT activities.
- Get immediate feedback on your work through built-in quizzes and tests.
- Connect with the global Cisco Networking Academy community.

Introduction to Packet Tracer	
Duration	10 hours
Level	Beginner
Language	English
On a library computer	Depending on firewall
On your own device using library wi-fi	Yes
Over the internet at home	Yes

Cybersecurity Essentials

Course details

The Cybersecurity Essentials course develops foundational understanding of cybersecurity and how it relates to information and network security. The course introduces students to characteristics of cyber crime, security principles, technologies, and procedures to defend networks. Through interactive, multimedia content, lab activities, and multi-industry case studies, students build technical and professional skills to pursue careers in cybersecurity. Learn what cybersecurity is and what it means for you personally and professionally.

- Learn procedures to implement data confidentiality, integrity, availability and security controls on networks, servers and applications.
- Understand security principles and how to develop security policies that comply with cybersecurity laws.
- Apply skills through practice, using labs and Cisco Packet Tracer activities.
- Get immediate feedback on your work through built-in quizzes and tests.
- Connect with the global Cisco Networking Academy community.

Career Pathway

The demand for cybersecurity experts has grown 3 times faster than any other IT job role, and training a cybersecurity workforce is a priority of many governments. From confidential company data to personal information, more connections make data more vulnerable to attacks, increasing the demand for professionals with cybersecurity skills

Cybersecurity Essentials	
Duration	30 hours
Level	Intermediate
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes

Entrepreneurship

Course details

The **Entrepreneurship** course uses interactive, online case studies to show how to apply network technology skills to start a business or advance your career.

- Increase your self confidence and personal motivation.
- Learn how to capture the customer's needs and design for them.
- Improve leadership skills and financial literacy.
- Learn about starting different kinds of businesses from an Internet café to a consulting service and more.
- Connect with the global Cisco Networking Academy community.

Career Pathway

Chart your own course. Start a business that applies your networking and technology skills to the needs in your local community or connects to a global need.

Entrepreneurship	
Duration	15 hours
Level	Intermediate
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes

NDG Linux Unhatched

Course details

The NDG **Linux Unhatched** exposes new learners to the basics of Linux software installation and configuration, and introduces the Linux command line in a short self-paced course. Aligned to the Linux exam objectives found on the CompTIA A+ certification, learners develop basic Linux knowledge and whet appetite to further build Linux expertise by continuing with either NDG Linux Essentials or NDS Linux I

- Learn how Linux is everywhere, from wrist watches to rocket ships, along with the growing career opportunities requiring Linux skills.
- Learn the basics of the Linux Command Line Interface (CLI).
- Apply Linux virtual machine knowledge step-by-step with hands-on lab activities.
- Connect with the global Cisco Networking Academy community.

Career Pathway

The expansion of open source is redefining IT job roles by requiring Linux skills. Knowledge of Linux is an important differentiator for business and IT professionals interested in big data, cloud computing, cybersecurity, Internet of Things, information systems, networking, programming, software development, and more.

Career pathways include: network administration, systems administration, software developer, and Linux administrator

Linux Unhatched	
Duration	8 hours
Level	Beginner
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes

NDG Linux Essentials

Course details

NDG Linux Essentials is designed for learners who are beginning to build Linux knowledge for a career in IT. You can take the course online, at your own pace, for free.

- Learn basic open source concepts.
- Understand how Linux is used and the basics of the command line.
- Apply skills using Linux virtual machine with step-by-step and hands-on lab activities.
- Build foundational knowledge for progressively mastering Linux commands.
- Connect with the global Cisco Networking Academy community.

Career Pathway

The expansion of open source is redefining IT job roles by requiring Linux skills. Knowledge of Linux is an important differentiator for business and IT professionals interested in big data, cloud computing, cybersecurity, Internet of Things, information systems, networking, programming, software development, and more

Career pathways include: network engineer, software developer, and Linux administrator

Linux Essentials	
Duration	70 hours
Level	Intermediate
Language	English
On a library computer	Yes
On your own device using library wi-fi	Yes
Over the internet at home	Yes