

CISCO INTRODUCTION TO THE INTERNET OF THINGS AND DIGITAL TRANSFORMATION

Subject Area	Digital
Student Type	Adults
Study Mode	Part Time

What is the course about?

Every day, billions of devices connect to the internet. This course introduces you to the Internet of Things (IoT) and explains how these connected devices are changing the way we live and work.

You will learn about IoT devices, which are physical objects that contain sensors, software, and network connections. These features allow the devices to collect data, share information with other devices, and sometimes act automatically without needing human input.

All of these devices work together as part of a wider IoT ecosystem. This growing field is improving efficiency, safety, and convenience across many industries, and it is creating many new job opportunities.

Why should I choose the course?

The Internet of Things (IoT) is one of the fastest-growing areas in technology. New companies, products, and job opportunities are emerging across the world, and organisations in every sector are looking for people with IoT skills.

In this course, you will explore how IoT works alongside other key technologies such as data analytics, artificial intelligence, and cybersecurity. Together, these digital tools are transforming industries and creating new career pathways.

By developing IoT skills, you can make a meaningful impact in any industry, from manufacturing to environmental conservation. Today, more than 26 billion people, systems, and physical objects are connected and sharing data over the internet, and this rapid change is reshaping the world around us. This course will help you build the knowledge you need to pursue well-paid roles in this exciting field.

Each module includes a short quiz to check your understanding, and at the end of the course you will complete a final short exam. Successfully completing the course will earn you a Cisco Introduction to IoT and Digital Transformation badge.

The course includes around 6 hours of learning content, which you can complete over several weeks.

What will I learn?

You'll gain a beginner-friendly understanding of:

- What IoT is and how everyday objects connect and communicate online
- How digital transformation works in businesses, governments and industries
- Why IoT and digital transformation matter and their real-world impact
- Cisco's role in developing the course



Course modules

1. Everything is Connected – How networks work and how IoT devices link to the internet
2. Everything Becomes Programmable – Basic programming using Blockly and some Python
3. Everything Generates Data – How IoT creates data and why it supports decisions
4. Everything Can Be Automated – Automation, AI and machine?learning basics
5. Everything Needs to Be Secured – Essential security concepts for IoT
6. Educational and Career Opportunities – Future trends and careers in IoT

Skills you'll develop

- Core IoT concepts and how connected systems work
- Understanding of digital transformation
- Basic programming skills
- Awareness of IoT data and how it's used
- Introductory automation and AI knowledge
- Security fundamentals for connected systems

What will the course lead on to?

This course provides a strong foundation that can help you progress to further study and industry?recognised qualifications. After completing it, you can move on to:

- The Cisco Networking Basics course
- Training to become a Network Technician
- The CCNA (Cisco Certified Network Associate) certification course

Are there any links with industry and university?

The course has been developed by Cisco, one of the world's largest and most respected network infrastructure and management companies.

What support is available?

We have a team of staff dedicated to providing learning support if it is required and a Wellbeing Team that are on hand to offer guidance, support and help when needed.

Additionally, eligible students can access a wide range of finance and funding support to help them during their time at college. For personalised advice on funding, please contact our Learner Services Team on 01925 494 400 or email learner.services@wvr.ac.uk.

Why should I choose to study the course at Warrington & Vale Royal College?

Warrington & Vale Royal College offers a welcoming learning environment with modern facilities, ample on-site parking, and expert tuition from knowledgeable and supportive staff. Whether you're just starting out or looking to develop new skills, we're here to help you succeed.



Warrington & Vale Royal College

Warrington Campus
Winwick Rd, Warrington WA2 8QA

 wvr.ac.uk

 01925 494 494

Winsford campus
Weaver St, Winsford CW7 4AH

 learner.services@wvr.ac.uk

What are the entry requirements?

As this course is for beginners, there are no entry requirements.

What are my funding options?

For more information about financial support, please visit: <https://wvr.ac.uk/college-life/financial-support>

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