Course Introduction

This course introduces the key concepts of the Internet of Things and cybersecurity. The course will provide an insight into the Internet of Things, outline the basics of cybersecurity, and describe a framework to protect IOT assets.

The course will also examine some real-world examples of IOT deployments and their cybersecurity, to highlight key lessons and key deployment actions that can be taken. It will provide IOT implementation guidance and examine how to build secure networks.

Course units

- Unit 1: Introduction to course
- Unit 2: Cybersecurity: the basics
- Unit 3: The Internet of Things: fundamentals
- Unit 4: Securing the Internet of Things
- Unit 5: Building secure Networks
- Unit 6: IOT implementation guidance
- Unit 7: IOT in the real world
- Unit 8: Course summary and assessments

Learning outcomes

- To act as intelligent customers: to understand the limitations of IOT devices and be able to ask questions about those cybersecurity devices
- To talk to security professionals and articulate their needs to better protect IOT devices
- To design ‘security in’ in IOT devices and deployments, and highlight where designs and deployments may have security issues
- To explain and apply a framework to protect IOT devices

Course content may be subject to change or updates. Please contact the IET for the latest course content.
What makes the IET Academy online courses different?

A new training resource from the IET, the Academy provides flexible e-learning using the latest techniques to enhance engagement and recall.

Each individual unit is fully interactive, with tasks to compete along the way to help embed your learning. Hosted on the renowned Cross Knowledge platform, the Academy uses proven, effective learning techniques.

Benefits for organisations

This course can be booked for multiple users across your organisation, ensuring that your workforce is up to date and working to the same level. The flexible access allows learners to complete modules in their own time and at their own pace, so that businesses are not impacted by external training days.

Cost effective and flexible

For many engineers staying informed or changing technology to remain current in their role is paramount, however, finding the time and budget to attend external training is challenging. The IET Academy's flexible learning platform allows access to training ‘anytime, anywhere’ or the course content can be quickly and easily integrated into an existing learning management system.

Who should take this course?

This course is suitable for anyone working with the Internet of Things.

Key features

- Unique – the course provides an engineer’s perspective on IOT and cybersecurity
- Non-technical in approach
- Applicable knowledge and framework
- ‘One stop shop’ covering two of the most current topics today

Other related courses

- Mobile Communications
- Fundamentals of Telecommunications
- Introduction to Cyber Security (coming soon)
- Risk and Safety Management for Engineers

How to purchase

- To buy a single course or set of units for your personal learning go to the Academy online store www.theiet.org/academy
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