

ICDL Insights

INTERNET of THINGS (IoT)



The IoT module introduces the Internet of Things, which extends Internet connectivity from computers and related devices to other physical devices or common objects and leverages from technologies such as embedded systems, wireless sensors, and automation.

Over the last few years, there has been an explosion in the scale of the Internet of Things. Homes, offices, factories and entire cities are being made "smart" by the proliferation of Internet-connected devices. Some estimates suggest that the number of connected IoT devices will reach 41.6 billion by 2025. Organisations and societies are only now starting to grasp the potential and implications of this trend.

This module is suitable for a wide range of candidates; for example, non-technical professionals who wish to build and demonstrate an understanding of IoT, facilitating engagement with their technical colleagues or their suppliers, or students who wish to add general technical knowledge to sector-specific or general studies.

Build an understanding of the key concepts and potential of the Internet of Things (IoT) for organisations and for society

The IoT Module is part of ICDL Insights, which addresses the requirement for current and future business managers to develop an understanding of trending and emerging technology.

Main learning outcomes

The IoT module consists of e-learning followed by a brief certification test. Together, these components deliver a short, focused professional development solution.

- Understand key concepts relating to Internet of Things (IoT), including common structure and requirements
- Recognise examples of consumer, commercial, industrial, and infrastructural applications of IoT
- Identify current trends in IoT, including the evolution of IoT components and the important role played by governance.
- Understand ethical, security, and interoperability considerations around adoption of IoT, and consider how IoT could be implemented in a given scenario
- Consider appropriate solutions and models for implementing cloud computing in a given scenario or situation

Why certify with ICDL?

- ICDL certification is internationally recognised by employers and institutions.
- ICDL Insights modules combine cutting-edge e-learning with a brief certification test to demonstrate your mastery of the relevant concepts and good practice.
- ICDL Insights modules can be coupled with more comprehensive, skills-focused modules to build a profile of skills, knowledge, and competences that are relevant to your career.
- ICDL syllabus content is vendor-independent so that skills, knowledge, and competence are transferable.

| Module Overview | |
|-----------------|-----------------|
| Unit | Content |
| Unit 1 | • What is IoT? |
| Unit 2 | • IoT Examples |
| Unit 3 | • Trends in IoT |
| Unit 4 | • IoT Adoption |

ICDL Insights

Digital understanding for business managers