

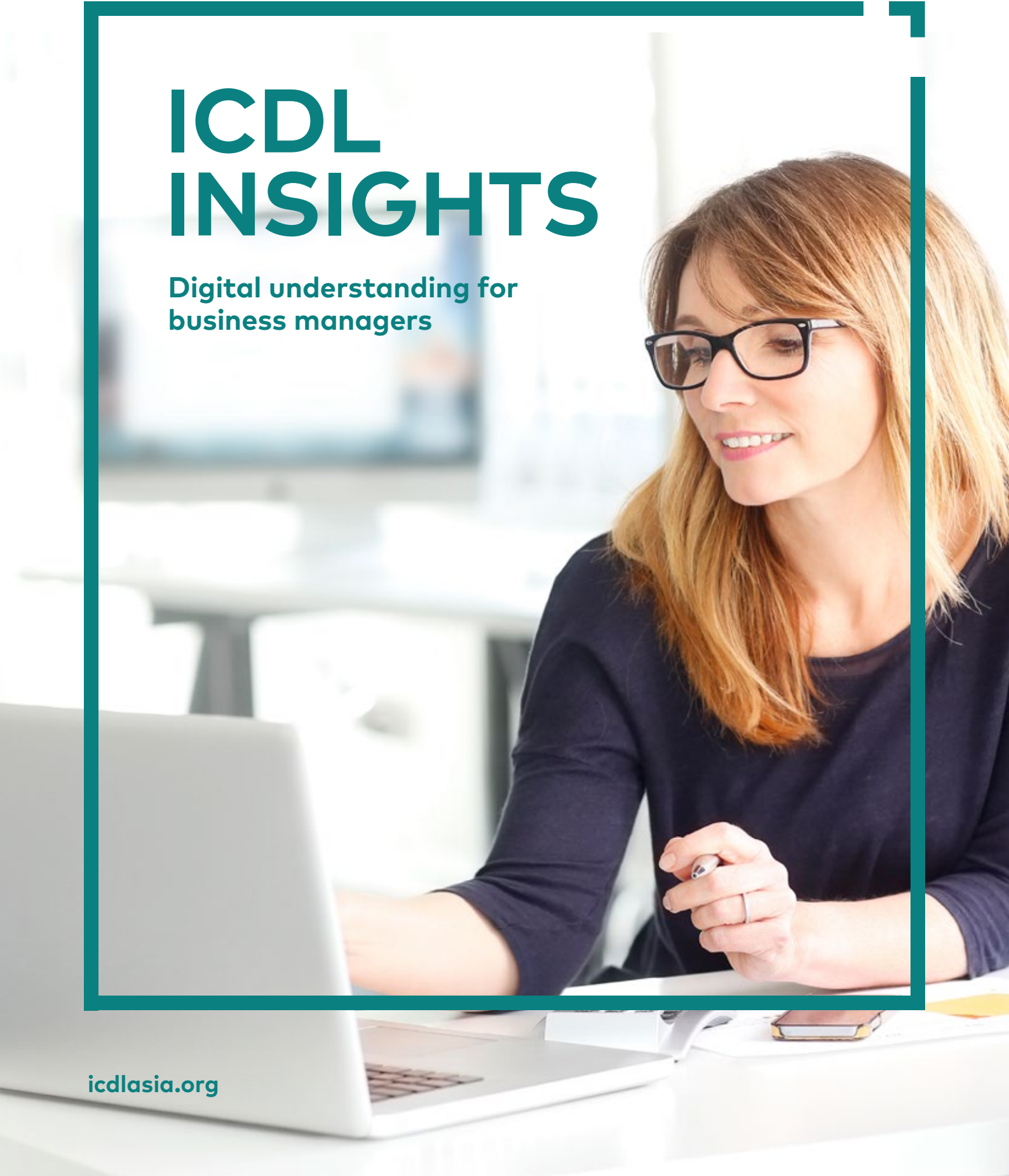


The Digital Skills Standard

ICDL Asia

# ICDL INSIGHTS

Digital understanding for  
business managers



[icdlasia.org](https://icdlasia.org)

# ICDL INSIGHTS

## Digital understanding for business managers



**Organisations are being exposed to an increasingly dynamic and fast-paced technology landscape. Service providers and consultants, the media, and policy makers are constantly promoting or discussing emerging technologies that may have a substantial – and systemic – impact on our economies and societies. As individuals and as employees, we need to be informed about what technologies are likely to have the most impact, as well as their underlying concepts and potential. This will help us to be informed – and will help our organisations make informed choices.**

Designed to address the requirement for current and future business managers to develop an understanding of trending and emerging technology, ICDL Insights offers overview modules that are contextualised in a practical way. These short, introductory modules provide the conceptual understanding to allow managers who are not IT professionals to consider the potential of technology and have informed conversations with IT professionals or specialists.

ICDL Insights contains a range of modules which can be combined with other ICDL modules to create a unique ICDL Profile. The syllabus content of each module is supported by high-quality elearning materials that establishes core concepts, gives practical examples of implementation, and provides opportunities for reflection. Together with a short certification test, this learning can provide a excellent opportunity either to develop relevant competences for future career development, or to contribute to continuous professional development.

**Short modules for business managers who are not IT professionals, which provide conceptual understanding of trending and emerging technology**

## Cloud Computing



The Cloud Computing module introduces the use of Internet-connected remote servers to store, manage, and process data, instead of using local servers or computers.

Cloud computing and cloud services are increasingly common technologies used by organisations to add flexibility, efficiency, and innovation. Many job roles in a range of sectors need to have an understanding of the potential of these technologies, as well as a grasp of the benefits and challenges associated with their adoption.

## Internet of Things (IoT)



The Internet of Things (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.

## AI (Coming 09/2020)



The AI module introduces the potential of Artificial Intelligence (AI), which is a form of intelligence demonstrated by machines whereby the machine perceives its environment and takes actions that maximises the chance of achieving specified goals.

This module will provide key concepts, offer examples, and consider their implications and potential for business and organisations.

## Blockchain (Coming 2021)



The Blockchain module demonstrates the potential of Blockchain technology, in which a list of records ("blocks") that are linked using cryptography, are resistant to modification, and can act as a public distributed ledger.

Blockchain is an especially promising and revolutionary technology for businesses and organisations because it helps reduce risk, stamps out fraud and brings transparency in a scalable way for myriad uses.

## Industry 4.0 (Coming 2021)



The Industry 4.0 module introduces the potential of Industry 4.0, a term encompassing the trend towards automation and data exchange in manufacturing technologies and processes.

These technologies include cyber-physical systems (CPS), the internet of things (IoT), industrial internet of things (IIoT), cloud computing, cognitive computing and artificial intelligence.

## Big Data (Coming 09/2020)



The Big Data module introduces the term 'Big Data' which is used to describe the massive volume of both structured and unstructured data that is so large it is difficult to process using traditional techniques.

Big Data is important not in terms of volume but in terms of what you do with the data and how you utilise it to benefit your organisation. Big Data technologies are very beneficial to businesses in order to boost efficiencies and develop new data driven services.

# ICDL Insights

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## Trending and emerging technology



Cloud Computing



Big Data



Blockchain



Industry 4.0



Artificial Intelligence



Internet of Things