



The Digital Skills Standard

ICDL Arabia

Emerging Technologies 2022 & Cyber Security Certificate

Digital understanding for
managers



ICDL Emerging Technologies 2022 & Cyber Security Certificate



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 requirements for current and future business managers to develop an understanding of trending and emerging technology, the ICDL Emerging Technologies 2022 and Cyber Security Certificate comprises of two modules. These modules provide the conceptual understanding to allow managers who are not IT professionals to consider the potential of these technologies and have informed conversations with IT professionals or specialists.

The certificate programme is supported by high-quality interactive e-learning materials that establishes core concepts, gives practical examples of implementation, and provides opportunities for critical thinking. Once ready, the candidate will sit for an official test for each module to gain certification. This learning can provide an excellent opportunity either to develop relevant competences for future career development, or to contribute to continuous professional development.

**Suitable for current
& future managers
who are not IT
professionals.
Provides a conceptual
understanding of
trending & emerging
technologies.**

AI



Unit 1 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 unit will provide key concepts, offer examples, and consider their implications and potential for business and organisations.

Internet of Things (IoT)



Unit 2 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.

Cyber Security



The Cyber Security module covers the main skills and knowledge needed for the secure use of ICT in everyday settings, at home and at work.

It is important to understand good practice in maintaining a secure network connection, using the internet safely and securely, and managing data and information. This module covers concepts around secure information and data, physical security, privacy, and identity theft.

Big Data



Unit 3 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 make analysis in order to benefit your business and organisation. Big Data technologies are very beneficial to businesses in order to boost efficiencies and develop new data driven services.

Cloud Computing



Unit 4 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.

**Interactive
eLearning**

**12 hours
of content**

**Two
Tests**

**International
Certificate**

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Digital understanding for business managers

Emerging Technologies 2022



Artificial Intelligence



Cloud Computing



Internet of Things



Big Data

Cyber Security



Cyber Security

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