

Technology
Ireland
ICT

Skillnet



lyit

Institiúid Teicneolaíochta
Leitir Ceanainn
Letterkenny Institute
of Technology

Level 7 NFQ
20 ECTS

Certificate in Emerging Digital Technologies Online and Part-time

This 100% online 24 week part-time programme is industry-led having been designed in partnership with a number of employers across a range of industry segments. The programme aims to upskill existing management staff to facilitate broader adoption of a range of emerging digital technologies with the objective of improving market position, competitiveness and commercial reach. Even before recent events, the marketplace was changing rapidly, driven by the emergence of new technologies. Since March 2020 these changes have accelerated. Businesses now know that their survival depends on understanding the challenges and opportunities offered by these technologies.

The purpose of this programme is to create graduates with a detailed understanding of Emerging Digital Technologies and how these technologies can be leveraged for the benefit of their organisation.

Benefits for the Organisation

- Retain and develop your most promising management talent.
- Give managers the confidence to embrace emerging technologies.
- Be at the forefront of technology developments, gaining competitive advantage while reducing costs.

Benefits for the Student

- Equip yourself with the knowledge and skills to work in a dynamic and rapidly changing organisation.
- Participate in driving the changes within the organisation thus enhancing career and promotion prospects.
- Obtain 20 ECTS credits at level 7. ECTS credits are universally recognised throughout Ireland and the EU. An important addition to your career profile.

The fees for this programme are part-funded by Technology Ireland ICT Skillnet

Who Should Apply

The target audience for this course is primarily mid-level managers but not necessarily from a computing background. Applicants may be from IT or non-computing backgrounds. All applicants must be working in private or commercial semi-state organisations in the Republic of Ireland to avail of the part-funded fees.

Course Objectives

The graduates of this programme are not expected to be 'technical' graduates but rather will be equipped to understand the needs of the organisation and how they can be met through technological solutions. Furthermore, they will be capable of articulating their knowledge, incorporating it into their company, planning and measuring progress in adopting new technologies. Graduates will be able to liaise with internal or external ICT professionals using a shared body of knowledge and framework of understanding. They will be able to discuss knowledgeable matters such as different options for data organisation and compliance, business intelligence, data analysis and the use of data to support strategy and decision making.

The programme will give students a solid foundation in emerging digital technologies such as how business intelligence works, how to visualise data, how to store and how to analyse data. By the end of the course students will know how to summarise and interpret the data they have accumulated so that they can make more effective predictions and decisions. Students will also begin to look at how this data can be applied to the development of Artificial Intelligence (AI) and how AI may be able to benefit their organisation.

Eligibility Criteria

To qualify for direct entry, candidates must have a minimum of a Level 6 qualification on the NFQ (National Framework of Qualifications) in any discipline or at least 3 years industry experience including some management or supervisory experience.

To Apply

Applications are now being accepted for this course starting on **18th October 2021** and with a closing date for applications of **8th October 2021**.

In the first instance applicants should submit their CV directly to info@ictskillnet.ie.

After initial screening applicants will be advised on next steps.

Fees

Eligible candidates can avail of our part-funded fee which reduces the cost to €875.



Programme structure

The course is made up of two modules.

Systems and Technologies for Decision Support will be delivered in semester 1 and Analytics and AI for Business will be delivered in semester 2.

Classes will typically run one evening per week and student will be expected to complete course work in their own time.

Systems and Technologies for Decision Support

This module gives an overview of how systems and technologies can support decision making across any number of business sectors. These technologies have had a profound impact on business strategy, performance and competitiveness, and broadly encompass decision support systems, business intelligence systems, and visual analytics. The focus is around the business intelligence concepts, tools, and applications, and the use of data warehouse for business reporting and online analytical processing, for creating visualizations and dashboards, and for business performance management and descriptive analytics.

Analytics and AI for Business

This module gives the student the ability to understand how large data sets can be represented and updated. The learner will be able to understand how data sets can relate to each other and construct models to represent the relationship between those sets. This module will allow learners to summarise, interpret and make predictions based on large sets of data using statistical software. The learner/student will be able to understand how Artificial Intelligence (A.I.) can be used to improve those predictions.

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