



Certificate in Emerging Digital Technologies

ONLINE • PART-TIME • NFQ LEVEL 7

Unleash your unstoppable potential, with Technology Ireland ICT Skillnet



Technology is ever-changing. No matter what stage you are at in business or your career, there is always more to learn.

At Technology Ireland ICT Skillnet, our vision is to create **progressive futures**, helping organisations to **transform at scale** and individuals to **develop a competitive edge**, through the **power of learning**.

For almost two decades, Ireland's leading technology companies have trusted us to build the critical skills needed to thrive in a rapidly evolving market.

Let us connect you to the infinite possibilities shaping the world of tomorrow.

Supercharged skills

Each of our programmes are designed, developed, and validated by specialists from academia and industry, working together, with a constant focus on:

1 **Creating opportunity and momentum** for experienced professionals and those starting out or transitioning career.

2 Delivering learning solutions in a way that **balances work and study**.

3 Providing practical skills, along with the theoretical, allowing businesses to **navigate new frontiers in the world of tech**.



6,000+

companies supported



14,000+

learners upskilled



Online, blended, and
in-company training supports



Government-subsidised
programme fees, up to 100%

Certificate in Emerging Digital Technologies

Embrace tomorrow's tech, today

In recent years, technology has emerged as one of the most critical factors in the success, and failure, of any business. These emerging technologies, although empowering, can be a disruptive force, impacting industries and markets in multiple, unforeseen ways.



Many business owners, managers, and decision-makers struggle to identify the right technologies to positively impact their business and drive the bottom line. Those who aim to stay ahead of the curve and capitalise on market opportunities must be able to comprehend emerging technologies and their true business and societal impact.

Through our 12-week online Certificate in Emerging Digital Technologies, you will gain a deep understanding of technologies such as artificial intelligence, cybersecurity, IoT, blockchain, fintech, robotics, and virtual/augmented/mixed reality, and how they can be utilised to create opportunities within your industry.

Now is the time to prepare for the future. Equip yourself with the skills to make better informed business decisions, while also strengthening your career prospects.

At a glance

Start Date

September 2026

Award

Level 7 NFQ (20 ECTS)

Delivery

Online

Duration

12 weeks part-time

Fees

Please enquire for 2026 course fees

Programme Partner

National College of Ireland



Who is this programme for

The Certificate in Emerging Digital Technologies is a one semester NFQ Level 7 Special Purpose Award designed primarily for professionals from non-computing backgrounds who wish to develop an understanding of contemporary and emerging digital technologies and their relevance to organisational contexts.

No technical background required. This programme is designed uniquely for business minds.

Programme delivery

The course is fully online and runs for a 12-week semester. The programme is delivered via synchronous and asynchronous directed activities, using state-of-the-art technologies and teaching techniques to support the virtual classroom.

Live online lectures will be scheduled 2x evenings per week, with 2x hours per lecture. The classes are recorded and made available, but attendance is strongly advised as class engagement and group work is a key aspect of this course.

There will be an additional 2x hours of non-scheduled self-paced directed e-Learning, consisting of short videos, recommended reading, and tutorial exercises. Students are encouraged to engage with this content each week before their live class to build an understanding and to prompt questions.

Module breakdown

The programme content outlined below is newly revised for 2026 and is currently in final QQI approval. It may be updated/amended before commencement.

Module 1

Emerging Digital Technologies (EDT)

The module aims to provide a comprehensive and up-to-date overview of Cloud Computing, Artificial Intelligence, Next Generation Mobile Networks, Quantum Computing, Internet of Things, Blockchain, FinTech, Robotics and, Virtual, Augmented and Mixed Reality that can be readily utilised in business contexts.

Topics Covered

- Introduction to EDT
- Cloud Computing and Data Analytics
- Artificial Intelligence (AI)
- AI for Business
- Blockchain
- FinTech and Payments
- Robotics and EDT integration
- Next Generation Mobile Networks
- Quantum Computing
- Internet of Things (IoT)
- Virtual, Augmented and Mixed Reality
- Impact Assessment of EDT
- Integration of EDT in Business

- Understand the significant role of emerging digital technologies and their relevance to contemporary business practice.
- Discriminate between relevant emerging digital technologies and distinguish their key definitions and components.
- Assess and analyse the impact of emerging digital technologies across a variety of industries.
- Evaluate industry-agnostic approaches and methodologies for integrating emerging digital technologies to innovate, automate and/or simplify business practice.

Assessment is based on two assignment submissions as part of an individual project.

1. Address a specific industry or sector where one or more Emerging Digital Technologies have been applied. [30%]
2. Submit a report that assesses the potential future impact of all EDTs covered in the module in industry or sector chosen in part 1. [70%]

Module breakdown

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Module 2

Digital Business Transformation (DBT)

The module focuses on the application of emerging digital technologies to specific business domains to enhance business performance, by identifying core principles, frameworks and tools of digital business transformation practice.

Topics Covered

- Fundamentals of Transformation
- Core Principles of DBT
- Strategic Alignment
- Values in Digital Business
- Project Management and DBT Lifecycle
- Identifying and Managing Key Stakeholders
- Customers Requirements and Experience
- Testing and Validating Prototypes
- Metrics for Assessing DBT Success
- Cultivating the Right Culture
- Scaling DBT Initiatives
- Future of DBT

- Investigate methodologies to assess the impact of market and societal forces salient to digital business transformation.
- Identify core principles, frameworks and tools for digital business transformation that make use of emerging technologies to support stakeholders.
- Specify, analyse, design and implement a solution that makes use of emerging digital technologies and the theory of digital business transformation for a practical business case study.
- Explain and justify the use and application of emerging digital technologies for a project.

Assessment is based on two assignment submissions as part of a group project.

1. DBT Requirements Analysis and Project Justification. The team will select a company (in consultation with the lecturer) and will make the business case for digital business transformation by identifying the business problems and/or opportunities, justifying how this challenge is aligned to the company's strategy. [30%]
2. Full DBT Roadmap. The submission will expand on the Part 1 submission by providing detail on each of the DBT stages in respect to the selected company. [70%]

Outcomes for you



Through applied learning and practical tasks, graduates will be well positioned to contribute meaningfully to digital transformation initiatives across diverse sectors.

You will be able to:

Utilise core knowledge and understanding of emerging digital technologies and digital business transformation that can be readily utilised in business contexts.

Generate insights using industry-agnostic frameworks, tools and methodologies for a variety of emerging technologies and make use of this information to solve real world business problems.

Analyse, design, implement and document a digital business transformation solution that applies emerging digital technologies for a specific business domain case study to enhance the business performance.

Demonstrate enhanced communication, presentation, teamwork and problem-solving skills.

Award

Participants will receive a parchment for the Certificate in Emerging Digital Technologies awarded by National College of Ireland upon successful completion of the programme.

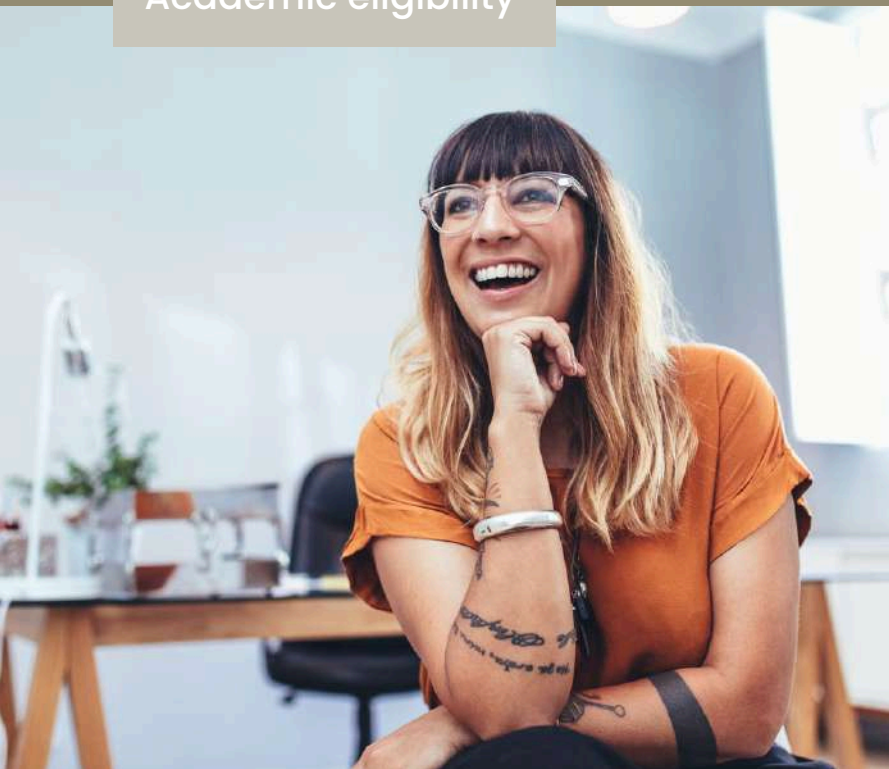




I chose the programme because I work in the business improvement field, helping companies on their digital transformation journey. In recent years, we've seen how new technologies help businesses improve their processes and efficiencies and I was interested in looking at emerging digital technologies before they became mainstream. The digital transformation section of the course was particularly useful as we are very active in that field. My training and experiences in lean management, digital transformation, and lean processes went hand-in-hand with the coursework.

John O'Shanahan,
Business Owner, LeanBPI

Academic eligibility



A minimum of a Level 6 qualification on the NFQ (National Framework of Qualifications) is required for standard entry.

For candidates who do not meet this minimum entry requirement, the college operates a Recognition of Prior Experiential Learning (RPEL) scheme whereby applicants may be considered based on relevant work or other experiences.

For applicants whose first language is not English, please note the English language entry requirements.

Funding eligibility

The fees for this programme are part-funded by Technology Ireland ICT Skillnet. Please enquire for 2026 course fees.

Applicants must be employed by, or operating as, an eligible business engaged in economic activity in the Republic of Ireland. This includes private companies, sole traders, commercial social enterprises and eligible commercial semi-state organisations. Additional eligibility verification may be required for certain organisation types to avail of grant-aided fees.

Applicants who do not meet our funding criteria may in some cases be able to apply directly to the college and pay the full course fee, if there are available places.

Please speak with our programme team to learn more about the availability of funding.

info@ictskillnet.ie

Programme delivered in partnership with:



National College of Ireland (NCI) is an exciting, innovative and forward-thinking third-level institution. NCI is a specialist college and provides a range of undergraduate, postgraduate and higher diploma programmes through its School of Business, School of Computing and Center for Education and Lifelong Learning. All qualifications are globally recognised, and you can be guaranteed exceptional quality and an excellent learning experience.



Ready to develop your career through Emerging Digital Technologies?

Our team is ready to answer any questions you might have regarding this programme. Send an email to info@ictskillnet.ie or use the enquiry form on our programme page and one of our programme leads will be delighted to assist you.

Successful applicants will be required to complete registration details both for Technology Ireland ICT Skillnet and for National College of Ireland. Programme participants will become registered students of the National College of Ireland.

Start your learning journey today
with Technology Ireland ICT Skillnet

Learn More

Embrace the future with confidence,
with Technology Ireland ICT Skillnet
as your training partner.



Programme pillars

Our wide range of programme channels allows you to access training in the latest technologies driving business development.



Artificial
Intelligence



Cloud



Cybersecurity



Data
Analytics



Innovation &
Transformation



Leadership



Quantum



Software
Architecture



Software
Development

Industry approved

With the support of our Industry Steering Group, made up of some of Ireland's most progressive companies, you can be assured that our programmes will provide you with the most relevant and cutting-edge skills that industry demands.



Certification you can trust

Through our strategic partnerships with some of Ireland's most influential higher education institutions, we offer a range of certificate, diploma, and masters programmes, with awards accredited on the National Framework of Qualifications.



Join 14,000+ learners who have transformed their careers with us. **Explore our range of courses >**

www.ictskillnet.ie



UNLEASH YOUR
UNSTOPPABLE POTENTIAL



Get in touch to invest in your development.
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Rialtas na hÉireann
Government of Ireland



Co-funded by
the European Union