

Data Skills Framework

Establishing a new Data and Analytics Skills Framework for organisations to excel in a data-driven world.

A graduated Data Skills Framework for Professionals delivered through integrated learning and skills development to provide a pathway to continuously advance in a data driven world.

For more information:

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About The Analytics Institute	4
About Technology Ireland Digital Skillsnet	5
Data Skills Framework	6
Training Snapshot	8
Pathways to Career Progression	10
Data Skills for Practitioners	10
Data Skills for Professionals	12
Advanced Data Skills for Professionals	14
Data Skills for Leaders	16

Analytics Institute

The Analytics Institute supports the Data Science and Analytics sector, providing a platform for public and private sector members to share insights and expertise, collaborate and build networks and foster innovation. Members have access to analytics training programmes designed around specific training requirements. The Institute's National Analytics Conference is the key industry event of the year.



Lorcan Malone
Chief Executive,
The Analytics Institute.

"The Data Skills Framework identifies and defines the key skills and knowledge required to advance as a professional in a world where data plays a key part in every role.

The Data Skills Framework sets out a progression pathway for professionals from new entrants right up to seasoned leaders.

We have developed a range of advanced training and certification programmes incorporating cognitive, communications and leadership skills along with data and digital fluency skills to help professionals further and enhance their skillset."



Beatriz Sanz Sáiz, Global Analytics & AI Leader, EY Consulting gives a keynote at the Institute's National Analytics Summit.



Máire Hunt
Network Director
Technology Ireland Digital
Skillnet

"The Technology Ireland Digital Skillnet is proud to partner with the Analytics Institute to bring accessible professional developmental pathways and new professional certifications, to a wide range of professionals.

Data Science and Analytics, are at the heart of the digital transformation of organisations, processes and technologies. Data skills and competencies will enable companies small and large, to survive and thrive."

Technology Ireland Digital Skillsnet

The Technology Ireland Digital Skillnet, hosted by Technology Ireland in Ibec, develops digital competency, human skills and leadership across all kinds of organisations. As well as helping companies to navigate digital change and transition, it supports digital talent development for employees and leaders. Its programmes range from strategic skills to programmes in future technologies including data, cloud, 5G, IO and AI. TO support talent development for organisations the network co-funds learning and development for companies.

Data is Everyone's Business

Key Highlights

- Customisable to your organisation's requirements.
- Classroom and Virtual Delivery Options.
- Instructor led hands on learning.
- Small Class Sizes of max 16 participants.
- Scalable across the organisation.
- Co-Funded.
- Professional Certification.

Data helps companies thrive and plan for the future. Data gives customers, clients, shareholders, and workforces the reassurance and certainty to make critical, clear-sighted, evidence-based decisions.

These days, there is no reason why employees in any type of business cannot learn more about the exciting and fast-moving world of data and analytics. Data driven decision-making is the future.

That's why the Analytics Institute in partnership with the Technology Ireland Digital Skillnet have developed the Data Skills Framework for Business. It supports and accelerates learning and enables teams to further develop and enhance their data skill across all levels of ability.

The Framework sets out to break down the complexity of the skills and competencies needed to work effectively with data. It defines the attributes, skills and knowledge that are essential to professional excellence in the data sector and where they interface and how they interact.

The Framework brings together these elements into one cohesive model - defining the skills and knowledge required for each level of professional competence. It offers a customised range of programmes appropriate to different groups in the organisation.

The Framework is designed to be flexible for staff of all abilities and is scalable across every organisation. After all, data is everyone's business.

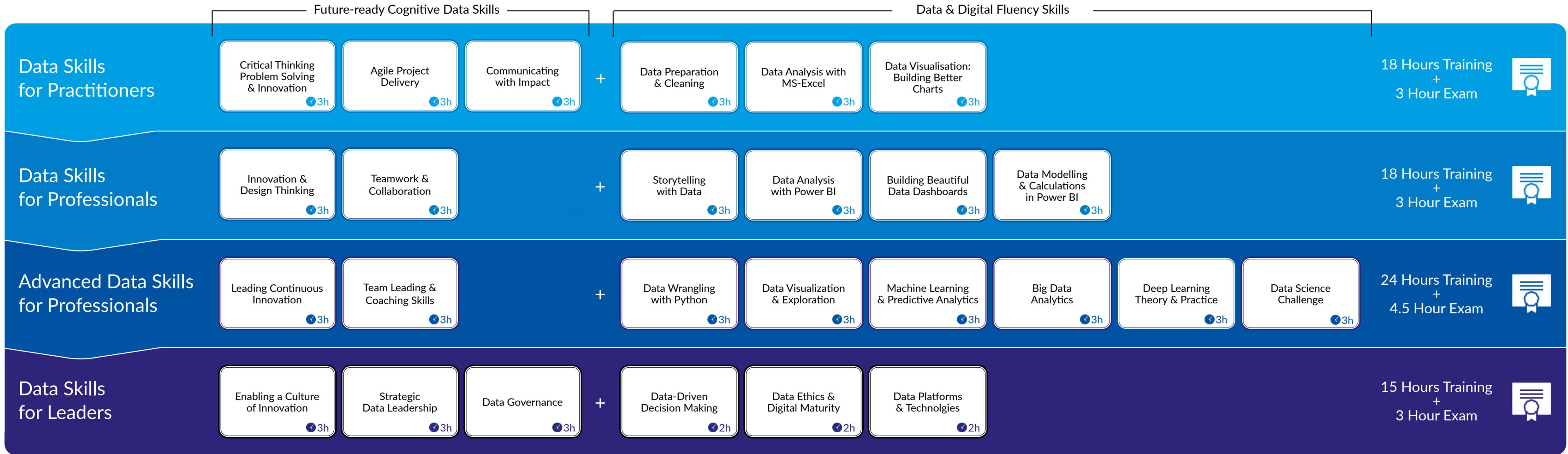
A graduated Framework to enhance data and analytics skills through integrated learning & development pathways for data driven organisations and business professionals.

Data Skills for Practitioners

Data Skills for Professionals

Advanced Data Skills for Professionals

Data Skills for Leaders



Pathway to Career Progression

Data Skills for Practitioners

Why attend?

If you are seeking to upskill your teams to become data-driven business professionals - but in a way that fits in with busy day jobs.

You want a dynamically delivered programme that will give your staff job-ready data tools and analytics skills. With small classes and expert online instruction, we'll help build competency for practitioners with hands-on learning and assignments applied to your organisation and sector.

Are you ready to take on board the very latest insights into data visualisation, problem-solving and agile project delivery and provide your teams with a graduated professional certification? Then this course is for you.

Designed for:

Busy professionals and companies who want to add data analytics to their skillsets or to generally improve knowledge of the latest trends and applications in data and analysis of data.

Suitable for full-time employees who can seamlessly incorporate the four levels of training into their working calendar.

The course is suitable for professionals working in varied industries and sectors with a pathway to continuously advance data competency.

Modules

Future-ready Cognitive Data Skills

 3 Hours

Critical Thinking, Problem Solving & Innovation

 3 Hours

Agile Project Delivery

 3 Hours

Communicating with Impact

Data & Digital Fluency Skills

 3 Hours

Data Preparation & Cleaning

 3 Hours

Data Analysis with MS-Excel

 3 Hours

Data Visualisation: Building Better Charts

Exams

 3 Hours



Certified in
Data Skills for
Practitioners

Data Skills for Professionals

Why attend?

If you have teams that are already applying data analysis but are looking to take things to the next level and add value to the organisation.

The second programme on our pathway will upskill in key areas such as cognitive data skills, innovation and design thinking, and build professional skills such as teamwork and collaboration.

If you also want 'hands-on' learning to understand how data helps with storytelling and how to build beautiful dashboards. Then this course on our data skills framework is for your team.

Designed for:

This co-funded and scalable course can be delivered in-house or customised to specific needs.

It's for professionals already employed in a role where they use data analysis tools to support a company's decision-making.

They might also already be involved in complex project work that requires a wide use of varied data. This course would suit full-time employees who can seamlessly incorporate the four-levels of training into their working calendar.

The course is suitable for people working in varied industries and sectors.

Modules

Future-ready Cognitive Data Skills

 3 Hours
Innovation & Design Thinking

 3 Hours
Teamwork & Collaboration

Data & Digital Fluency Skills

 3 Hours
Storytelling with Data

 3 Hours
Data Analysis with MS-Power BI

 3 Hours
Building Beautiful Data Dashboards

 3 Hours
Data Modelling & Calculations
in Power BI

Exams

 3 Hours



Certified in
Data Skills for
Professionals

Advanced Data Skills for Professionals

Why attend?

For your staff who are data scientists, architects or engineers with broad expertise, the third programme on our framework will enable professionals to drive their career forward and lead from the front.

You want to hone your teams future-ready cognitive data skills and develop team leading and coaching capabilities through expert instruction.

This programme will extend the knowledge base in data and digital fluency with expertise in data visualisation and exploration, big data analytics and deep learning theory and practice.

You will already be proficient with python for AI and machine learning. This course is for you if you are a seasoned data pro who can lead at an operational level.

Designed for:

This co-funded and scalable course can be delivered in-house or customised to specific needs.

It's for experienced data professionals who lead teams and who have already amassed a deep level of knowledge.

This is also for those who have proven skills in motivating people – with expertise in negotiation and communication.

Modules

Future-ready Cognitive Data Skills

 **3 Hours**
Leading Continuous Innovation

 **3 Hours**
Team Leading & Coaching Skills

Data & Digital Fluency Skills

 **3 Hours**
Data Wrangling with Python

 **3 Hours**
Data Visualization & Exploration

 **3 Hours**
Machine Learning & Predictive Analytics

 **3 Hours**
Big Data Analytics

 **3 Hours**
Deep Learning Theory & Practice

 **3 Hours**
Data Science Challenge

Exams

 **4.5 Hours**



**Certified in
Advanced Data
Skills for
Professionals**

Data Skills for Leaders

Why attend?

You want to champion a data-driven culture!

Your senior management group need to use data to support strategic decision-making. But you want to go even further and help to enable and embed a culture of innovation in your company.

You want to deepen knowledge of strategic data leadership and governance and embed data ethics and digital maturity in your organisation.

This course is for your team leaders and data leaders.

Designed for:

This co-funded and scalable course with professional certification can be delivered in-house or customised to specific needs.

The programme is for leaders and senior managers who lead data driven projects and who can shape data culture and drive innovation.

Modules

Future-ready Cognitive Data Skills

3 Hours

Enabling a Culture of Innovation

3 Hours

Strategic Data Leadership

3 Hours

Data Governance

Data & Digital Fluency Skills

2 Hours

Data-Driven Decision Making

2 Hours

Data Ethics & Digital Maturity

2 Hours

Data Platforms & Technologies

Exams

3 Hours



Certified in
Data Skills for
Leaders



Data Skills Framework

Technology Ireland DIGITAL Skillnet is co-funded by Skillnet Ireland and network companies. Skillnet Ireland is funded from the National Training Fund through the Department of Further and Higher Education, Research, Innovation and Science.



An Roinn Breisoideachais agus Ardoideachais,
Taighde, Nuálaíochta agus Eolaíochta
Department of Further and Higher Education,
Research, Innovation and Science

