Programme Guide:
Level 4 Data Analytics for Risk Professionals
Project Data Academy (PDA)

GRASP THE OPPORTUNITY...

...TAKE CONTROL OF YOUR OWN FUTURE
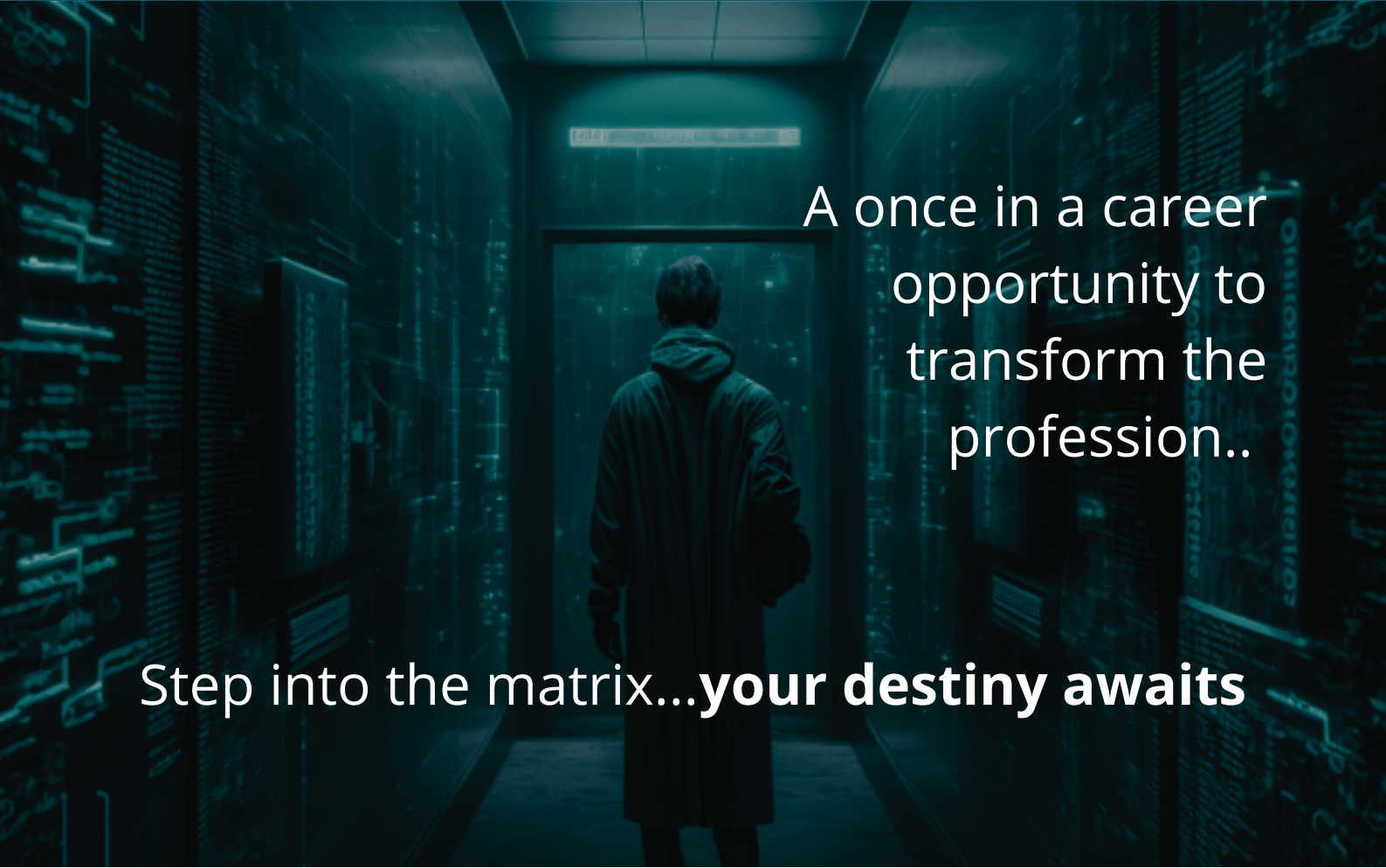
Transforming the risk management profession through the power of data and AI

MAL!

Calling all risk management professionals

Be part of a coalition of risk practitioners who will reimagine risk management

A once in a career opportunity to transform the profession..

Step into the matrix...**your destiny awaits**

The Data Analytics for Risk Managers course is a cutting-edge initiative aimed at transforming the field of risk management through the power of data-driven analytics.

Backed by government funding and a team of experienced professionals, this course seeks to equip risk managers with advanced analytical tools and techniques to apply theory in practice and leverage upside opportunities.

Using data to minimise the downside and maximise the upside

Qualification Aims:

1. Enhancing Risk Assessment: Investigate historical data, trends, and external factors within data models to assess and formulate proactive risk strategies for optimising decision-making, reducing disruptions, and improving delivery confidence.

2. Predictive Risk Modelling: Use data analytics techniques to predict systemic risks by developing robust risk models that analyse vast data in real-time. Go beyond conventional Quantitative Risk Analysis by leveraging machine learning and predictive analytics techniques to gain insights into variance before it occurs.

3. Real-time Risk Monitoring: Implement advanced data monitoring systems for real-time variance tracking and alert mechanisms. Create dynamic dashboards and automated variance detection to swiftly identify threats, enabling prompt and effective responses.

4. Actionable Insights and Reporting: Develop user-friendly interfaces and visualisations to provide actionable insights and intuitive reports. Leverage the hard won experience that is codified in data to shape actions and interventions.

The Data Analytics for Risk Managers qualification has the potential to transform project, programme and portfolio risk management. It is truly unique and ground breaking. You will be part of a coalition of people who will reshape the profession.

By harnessing data analytics, risk managers can proactively identify, assess, and mitigate variance, reducing disruptions, leveraging opportunities and enabling informed decisions. Reimagining the fundamentals of risk management.

A new breed of professionals will emerge

The data driven project delivery initiative has the support of the APM, MPA, IPA and others. It is approaching critical mass and will soon become a critical component of Risk Management on every project.

Risk Managers and Analysts will relate to repeated issues such as the risk register that is put on the shelf, the risk analysis based on high intensity subjectivity, or the poor management of contingency due to the lack of predictive variation analytics.

Taking a data driven approach will provide decision-makers with high quality data insights that cannot be ignored or excluded, thereby combatting human bias (e.g., optimism bias, commitment bias and over 150 other biases) and increasing the likelihood of success.

Risk management is about to be disrupted.

Are you prepared for what comes next?

"The probability of delivering a major project within the sanctioned cost, time and benefits envelope is only 0.5%. Project productivity has stagnated. Although incremental change may deliver some improvement, there is a pressing need for transformational change. With a pipeline of £600bn of UK infrastructure projects alone, the opportunities are immense.

Collectively we have amassed a vast amount of hard-won project delivery experience. The majority of this resides in silos, codified in data and tacit knowledge. We now have the opportunity to deploy advanced data analytics and AI to leverage the rich seam of data that is typically created and then discarded during the life of a project, to automate and derive predictive insights that would otherwise have been unimaginable.

Transforming project performance with data

Unlocking the power of data to deliver project success

Extracted from the Project Data Analytics Task Force White Paper

There is an opportunity for us to collaborate in our collective interest; moving quicker together than alone. Having the confidence to securely pool and share access to information has the potential to develop the volumes, quality and richness of data necessary to drive this change. Underpinned with the appropriate data infrastructure the community can develop and democratise solutions, and create the space for new high end data driven commercial solutions".

Why? What will you get out of it?

**Risk management is ripe for disruption
Be part of shaping the future of the profession**

Employee:

- Build critical skills and confidence in data science to dramatically improve and reimagine risk management.

- Automate the mundane, help to avoid the avoidable and develop new superpowers.

- Extract and manipulate data to provide solutions & insights to resolve these challenges.

- Become a pathfinder within your organisation and reimagine how you work.

- Upskilling in a discipline that is in high demand.

Although apprentices will be required to complete their off the job training, many of their exercises & hackathons are centred around employer challenges, **real problems, real data, practical solutions.**

Employer:

- Reimaging how your organisation manages risk. Improving delivery and investment confidence.

- Cost savings, automation of repetitive processes leads to projects being delivered more efficiently.

- The ability to do more with less.

- Help identify opportunities, inspire others and begin to transform how your organisation manages risk.

- A range of capabilities as a direct product of the apprenticeship, including dashboards and AI solutions.

Course Outline: Tailored for Risk Management

Learners will work with some of the leading minds in Data Science and Engineering to explore emerging approaches to Risk Management and help to solve real problems in project delivery.

Module	Overview
Introduction to Project Data Analytics	Welcome and introduction to Project Data Analytics.
Data Fundamentals	A complete guide to data analytics, domain and business function contextualisation.
Data Visualisation with Power BI	Learn the principles of visualising data and start your journey with Power BI from beginners to intermediate.
Programming	Unlock your programming skills using Python.
Data Analysis and Machine Learning	Use Power BI alongside machine-learning algorithms that use data to predict outcomes.
Data Modelling	Learn how to manipulate relationships between different data sources.
Power Platform	A complete guide to automating your tasks and workflows to save time and money.
Applied Machine Learning	Learn about new developments and how to apply machine learning in your role.
Data Security	Learn the key fundamentals of data security and how to apply it to your role.
Customer (CX) and User (UX) Experience	Understand how to meet customer and user requirements in a 'data driven' world.
Analyst Presentation Skills	Use techniques to tell a story that gives significance to your data.
Project Planning	Plan your projects to achieve the best outcomes.
Data driven project delivery	Explore project data analytics and the current market.
Frontier Technology	Explore the latest and greatest new tech on the market.
Advanced Project Planning	Finalise project planning ready for your forward journey.

Course Structure:

26 off the job training days with self-study exercises.

20 days of online teaching.

- Periodic progress reviews with you and your employer to ensure you are getting appropriate support.

- Free tickets to Project Hack, the only hackathon for Project Data Professionals solving real project problems put forward by our sponsors.

- Join the Project Data Analytics Community with the option to network in person and virtually with your peers and our alumni to discuss the latest in Project Data Analytics.

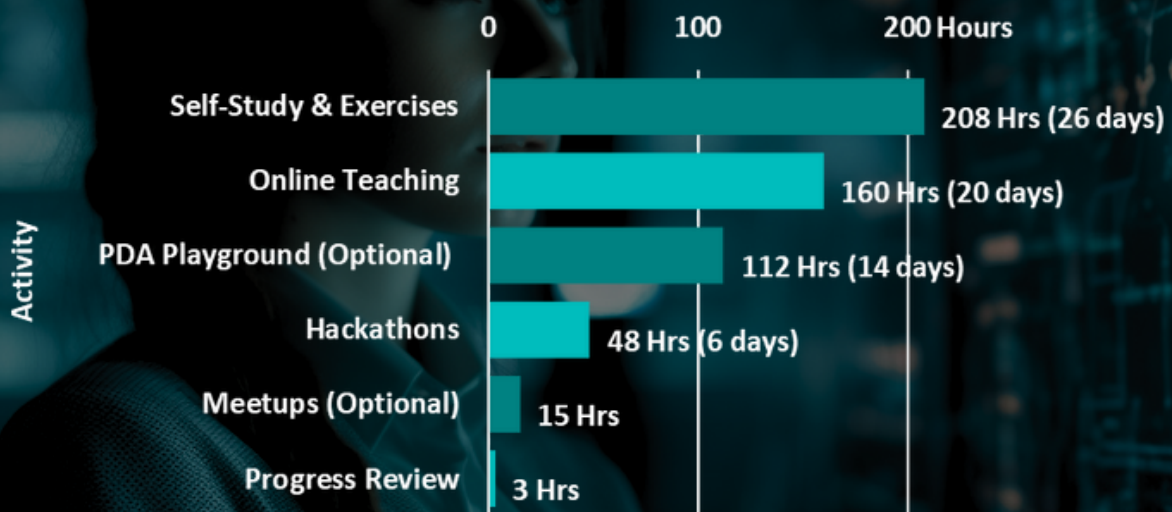# We guarantee to improve your personal productivity by......

>20%

We'll help you to unlock your potential, make your job more fulfilling and help you to become more resilient to a rapidly evolving job market.

We'll also help you to reimagine how you work.

Inspire you. Connect you with like minded people.

We'll prepare you for a new era in project delivery.

Apprentices working towards Functional Skills Level 2 in Maths and English will receive extra sessions and support, including a dedicated Functional Skills Tutor, BKSB Learning Resources, workshops, 1-1 sessions, and activities to help with exam preparation in addition to the days shown below.

Activity	Hours
Self-Study & Exercises	208 Hrs (26 days)
Online Teaching	160 Hrs (20 days)
PDA Playground (Optional)	112 Hrs (14 days)
Hackathons	48 Hrs (6 days)
Meetups (Optional)	15 Hrs
Progress Review	3 Hrs

0   100   200 Hours

*The final assessment period will be conducted within 3 months after all teaching and learning is completed.

**We meet with learners and employers every 8-12 weeks to measure progress made and ensure that you are getting appropriate support and the apprenticeship is delivering results for the business.

Key Facts:

- **15-month programme.**

- **Tutor-led training via remote online lessons.**

- **Off the job learning. Working on at least 3 projects to develop a portfolio that will help to inspire others.**

- **Award of a nationally recognised <u>Level 4 Data Analyst</u> qualification.**

- **The apprenticeship is either:**

  - **100% funded for levy payers (free for employers and learners)**
  - **95% for small medium employers and learners (employers only have to pay 5%)**

- **Cohorts have varying age groups, from 18 to >60 years old.**

Who is Eligible?

Core Entry Requirements *(Mandated by UK Education and Skills Funding Agency)*

Possess a valid passport / birth certificate / residence permit and NI number. Must be in employment.

+

Must have lived in the UK and/or EU 3 years prior to start date. Must spend 50% of time in England when undertaking the apprenticeship.

+

Must not be undertaking another apprenticeship or any other form of education at the same time.

+

The apprenticeship must offer substantive new skills & knowledge in your existing or new role.

If you cannot evidence GCSE English & Maths (or equiv) at grade C or above, then you will be required to complete additional training in functional skills as part of the course.

We take account of previous relevant experience and work with you to tailor the course. Ultimately, employers will assess the suitability of their staff for training.

Unrivalled in the world of project data analytics

Proud to be the driving force behind data driven project delivery

Providing visible leadership for the benefit of the community We can achieve so much more together, than alone
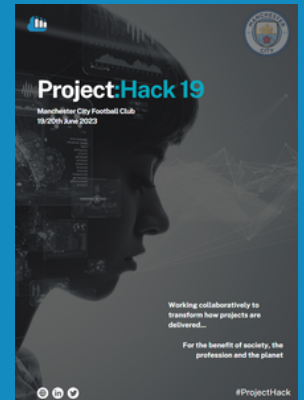
In 2017 we founded the >10,000 strong Project Data Analytics Community.

We co-authored the APM's guide to Getting Started in Project Data. We sit on the APM's Data Advisory Group.

We took a leading role in founding and setting up the Project Data Analytics Task Force. Our CEO was co-chair for >2 years.

We founded Project:Hack as a means of uniting the community around common goals, inspiring people and creating a movement.

We helped establish the Construction Data Trust. We have been appointed as data steward.

We co-authored the manifesto for data driven project delivery.

We have been the driving force behind the Visions for 2025; reimagining project delivery for the benefit of society, the profession and the planet

Join like minded people to solve shared challenges that face the profession

Every 4 months we run #ProjectHack. We bring together 100s of project and data professionals to solve common challenges that face the project delivery profession. By joining the Academy we'll work with you to shape these challenges. You'll receive the VIP treatment!

At #ProjectHack, you will have the chance to work on projects that have the potential to revolutionise the industry. You will be given access to cutting-edge technology and tools, and have the opportunity to learn from experts in the field. Plus, you will get to network with a diverse group of professionals, share ideas, and gain valuable insights into the latest trends and developments in project delivery. An incredible opportunity to make a real difference and take your career to the next level.

Plus... on top of the kudos of winning, we award a prize pot of up to **£5,000!**

Working together for collective benefit

By working together we can transform the industry at a pace and scale we have never imagined. Be part of the revolution in project delivery.

Project Hack 17 at Tottenham Hotspurs stadium, attended by 330 people. We awarded a prize pot of £5000!

Our Credentials

"Projecting Success was the obvious choice for our apprenticeship program. As pioneers in project data analytics, they bring a wealth of personal experience leading megaprojects and portfolios. Their expertise in data analytics, AI, and data engineering is unmatched, and they've founded a community of over 7,500 like-minded individuals. It's clear they're at the forefront of this field, consistently demonstrating integrity, collaboration, and commitment.

Our partnership has already spurred a dramatic shift in our thinking, and we're seeing operational changes as a result. Our apprentices automate data collection, processing, and reporting, saving hours each day. This is just the beginning – a grassroots data culture is taking hold that will revolutionise our project delivery".

Gareth Parkes, Head of Data & Analytics, Sir Robert McAlpine Ltd

computing
AI & Machine Learning Awards   **AI/ML Team of the Year**

dataIQ™100
THE MOST INFLUENTIAL PEOPLE IN DATA

APM Association for Project Management   **Finalist**

Mike Nichols Award for Inspiration

Projecting Success have encouraged us to challenge our current business processes and helped us to realise that there are often more efficient ways of carrying out tasks helping to improve staff morale and reduce costs"

Anne-Marie Cobb, Lead Development Manager. Osborne

Projecting Success' approach...is both revolutionary and highly disruptive. The world needs more people like Martin and his team to shake things up and make us all think differently"

Project Data Analytics community member

Collaborate with a trusted organisation who are working hard to transform how projects are delivered www.projectingsuccess.co.uk

Key Dates For 2023

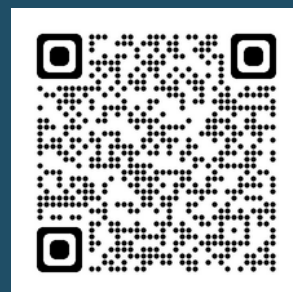| Cohort	Launch Date
Project Data Analytics for Risk Professionals	
August 2023	**30 August**
Project Data Analytics General Course	
July 2023	**26th July**
September 2023	**27th September**
November 2023	**29th November**

✉ **enquiries@projectingsuccess.co.uk**

🌐 **www.projectingsuccess.co.uk**

📞 **+44 (0)20 3821 5203**

closed cohorts available for employers on request

Let us guide you into the wonderful world of data driven project delivery

Don't miss out on the opportunity to take your data analytics to the next level and prepare for a data driven future

Enrol on our Project Data Analytics for Risk Professionals course today and unlock the power of data and AI to transform how we deliver projects. Sign up now!

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Enquire today!