



# Programme Guide: **Level 4 Data Analytics for Project Controls** Project Data Academy (PDA)



## **Project Data Academy**

Providing the knowhow and skills to unleash your data  
and AI superpowers to reimagine project delivery

Co-creating solutions and collaborating to change  
the world for the better

**Transforming the project  
controls through the power  
of data and AI**



# The Vision

Welcome to an exclusive program designed just for you! In this bespoke initiative, we're bringing together a select group of up to 25 project controls professionals to embark on a transformative journey, harnessing the incredible potential of advanced data analytics and AI.

Here's what makes this experience truly exceptional:

- **Shaping the future:** You'll collaborate with your peers to shape a vision and roadmap that will transform project controls, forever.
- **Collaborative innovation:** You'll get the opportunity to develop modules of capability that will ignite a transformational shift. Imagine the collective impact of at least 75 distinct projects!
- **Empowerment through pilots:** You'll have the opportunity to run pilots, steer the ship, and set the pace of change. It's your chance to be at the forefront of this exciting evolution.
- **Measure and evidence:** If we want to move the dial, we'll need to evidence the impact of new ways of working. We'll work with you to measure your productivity improvement, the benefits you have unlocked and the overall return on investment.

Get ready to unlock your potential, drive change, and shape the future of project controls.

You will not only develop an impressive portfolio, you'll also have the kudos of being part of a cohort that helped to transform project controls





Introducing our Data Analytics for project controls course – a pioneering program set to revolutionise project controls using the transformative power of data analytics and AI.

Supported by government funding and led by a seasoned team of experts, this course is dedicated to empowering project controls professionals with state-of-the-art analytical tools and hands-on techniques. Our goal is to bridge theory and real-world practice, enabling you to envision and reshape the future of project controls.

## Qualification Aims:

- **Discovering Valuable Insights:** In this training, you'll explore how advanced tools like AI and data analytics can help you understand your projects better, improve reporting and gain confidence in the underpinning data. You'll be able to make smarter decisions and spot potential issues before they become big problems.
- **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.
- **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 & improving delivery confidence.
- **Efficiency Through Automation:** Learn how AI can handle repetitive tasks for you. This means you can spend less time on boring, manual work and more time focusing on solving problems and making our projects run smoothly.
- **Optimisation:** Find out how AI and data analytics can help you identify opportunities to avoid overruns, optimise the deployment of resources, make real time trade offs and interventions by leveraging supply chain data.
- **Enhancing Communication:** Discover how data and numbers can help you communicate better with your project partners, or stakeholders. Improved communication leads to better teamwork and faster solutions to any challenges that arise.
- **Future-Proofing Your Career:** By gaining these skills in AI and data analytics, you're preparing yourself for the future. This means you'll always have a valuable role in our projects, and you'll be ready to adapt as technology evolves.

Check out the Data Analytics for project controls certification – it's a total game-changer for project controls. Seriously, it's one-of-a-kind and innovative. You'll be part of a cool group of people who are totally going to shake up the project controls world!

**A new breed of professionals will emerge**







## Project controls 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.*

*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".*

### Transforming project performance with data

Unlocking the power of data  
to deliver project success



**Extracted from the Project Data  
Analytics Task Force White Paper**



# Why?

## What will you get out of it?



### Employee:

- Build critical skills and confidence in data science to dramatically improve and reimagine project controls/
- 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:

- Reimagining how your organisation manages risk, change and variance. 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 Project Controls

Learners will work with some of the leading minds in Data Science and Engineering to explore emerging approaches to project controls 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.

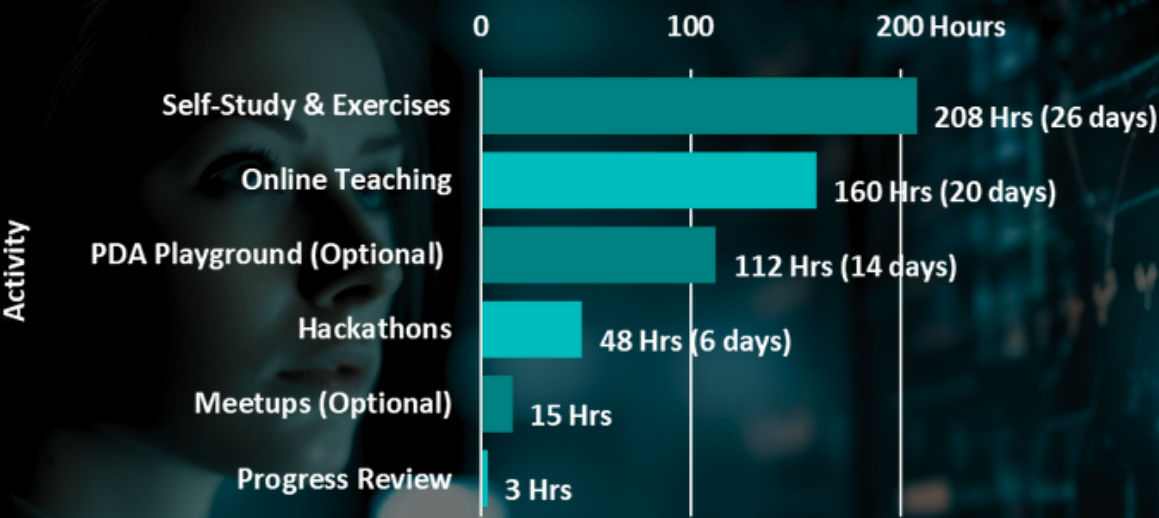
We guarantee to improve your personal productivity by.....

>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, BKS Learning Resources, workshops, 1-1 sessions, and activities to help with exam preparation in addition to the days shown below.



\*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, plus end point assessment.
- Tutor-led training via remote online lessons.
- Off the job learning.
- Award of a nationally recognised Level 4 Data Analyst 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)



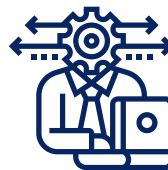
Possess a valid passport / birth certificate / residence permit and NI number. Must be in employment.



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.



# 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!



Working together for collective benefit

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!**

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

**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](http://www.projectingsuccess.co.uk)



# Key Dates For 2023



Cohort	Launch Date
Level 4 Data Analyst for Project Controls	
April 2024	24th of April
Level 4 Data Analyst	
January 2024	31st of January
March 2024	27th of March



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closed cohorts available for employers on request





# Unleash your superpowers

## 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 Project Controllers course today and unlock the  
power of data and AI to transform how we deliver projects. Sign up now!



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[www.projectingsuccess.co.uk](http://www.projectingsuccess.co.uk)



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Enquire today!

