



BPP AND MTC TRAINING PARTNERSHIP

**Providing industry leading, transformative
Data Science BSc and MSc degree
apprenticeship training programmes**

PRODUCT BROCHURE

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LEVEL 6 DATA SCIENTIST INTEGRATED DEGREE APPRENTICESHIP



Duration

36 Months



Qualification achieved

Bachelor of Science (Honours) in Data Science awarded by BPP University



Entry requirements

Set by individual employers. Your employees must be in a role relevant to this programme to be eligible to apply. Applicants will be asked to provide evidence of current English and maths qualifications during the application process.



Cost

This programme is funded through your Apprenticeship Levy.

What does this programme offer to your employees?

We teach practical data science and technical skills to solve real-world problems:

- Developed by experienced data scientists from across industries
- Focused on practical skills to solve business problems, not just to learn tools
- Using case-studies based on real-world business problems

This programme is aimed at individuals who are data-curious or have foundational knowledge in data and analytics and are looking to gain a solid understanding of data science concepts and techniques.

Your employees will benefit from learning how data science can be used to solve business problems and the technical skills needed such as programming, data processing and visualisation. They will be taught by industry experienced tutors who hold a previous track record in working with complex data architectures and projects.

This apprenticeship provides a great foundational education for a career in data analytics, data science and data engineering. Upon successful competition, further technical progression is available through our Level 7 MSc in Applied Data Analytics.

What your employees will learn?

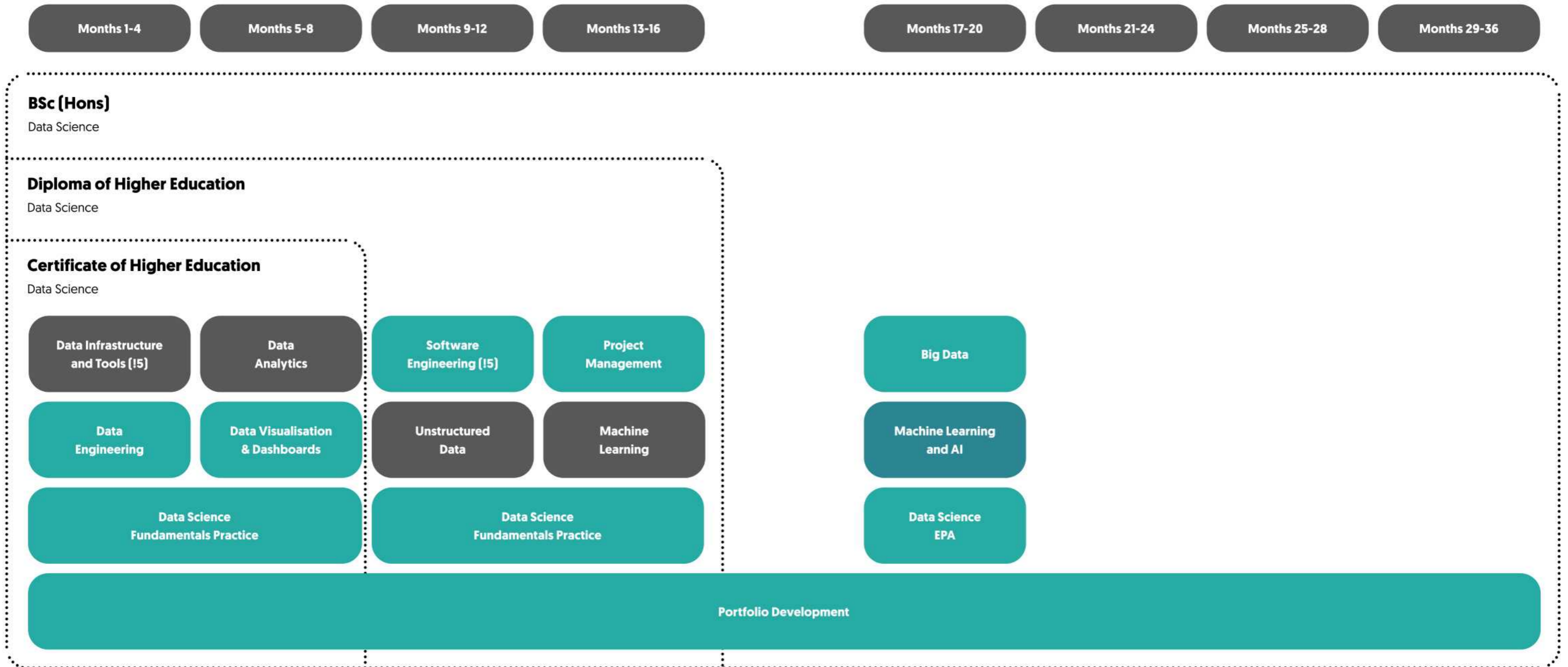
- Core programming skills for data analytics, using Python and Pandas
- Exploration of analytics tools – Power BI, Tableau, Alteryx, and other tools relevant to your organisation
- Data storytelling – communicating complex concepts in a clear and effective manner with presentations and visualisations
- Building predictive models using Machine learning and Artificial Intelligence
- Managing a data science project from end-to-end, delivering value to stakeholders
- Databases and SQL – core concepts, database design, and data modelling
- Basic Data Engineering – data quality, data-driven decision making, and how data is used to solve organisational problems
- Processing unstructured data – Natural Language Processing, web-scraping, and APIs
- Big data tools, distributed file structures, distributed computing, and the administration of clusters
- Cloud infrastructure and the fundamentals of cloud computing – the concepts, value, and security of cloud service providers

How is this programme delivered to your employees?

- The programme comprises of 10 academic modules, and three data science projects completed over the course of 36 months where you apply your learning to a real work-related problem
- The 10 modules are provided as a blend of online live tutorials and asynchronous content with realistic case-studies completed in your own time
- Employees are required to attend two x 2-hour live and interactive lectures each week using premium virtual classroom software, Adobe Connect
- Our e-learning content includes video lectures, digital reading and case studies delivered on the BPP learning platform
- We use virtual environments that offer a simulated business context for your training, and allow us to track your progress and provide targeted feedback
- We provide one-to-one meetings with a dedicated Coach each month and regular group coaching sessions which encourage peer learning
- Over the course of the three years, you will need to apply the skills learnt to your job and build a portfolio of evidence that demonstrates your professional development

How is this programme structured?

This 36-month programme consists of ten modules studied over 28 months, with the final eight months spent completing the project report and professional discussion set by an external assessor as part of the End Point Assessment.



How are employees assessed?

Each programme has a standard set of competencies, known as Knowledge, Skills and Behaviours, that are developed throughout the BSc in Data Science.

The Knowledge, Skills and Behaviours are evaluated through an End Point Assessment [EPA], which is completed in the last eight months of the apprenticeship. The EPA is conducted by an external assessor and will include the following elements that need to be completed in order to finish the apprenticeship:

- A project report submitted after the gateway answering a series of critical and evaluative skills and behaviours questions based on work experience
- A professional discussion

LEVEL 7 MSC APPLIED DATA ANALYTICS APPRENTICESHIP



Duration

24 Months



Qualification achieved

MSc in Applied Data Analytics
awarded by BPP University



Entry requirements

A minimum 2:2 Honours degree from a UK or recognised international university. Applicants with less than the required level of academic qualification may be considered if they have significant work experience and/or a relevant professional qualification in the field of data science.



Cost

This programme is funded through your Apprenticeship Levy.

What does this programme offer to your employees?

Aligned to the Digital and Technology Solutions Specialist Level 7 Apprenticeship, this programme is for the rising stars and next generation of data and AI scientists, specialists and leaders within your organisation. It is aimed at individuals who are looking to gain a solid understanding of data science concepts and techniques that will enable them to work on challenging projects.

Your employees will be able to leverage the power of both big data and domain knowledge to solve real world problems. They will benefit from 'best-in-class' technical skills and gain the ability to manipulate vast amounts of data with sophisticated statistical techniques.

The ability to present and explain complex findings to a broad audience will also add to your employees' value, combined with a deeper understanding of more advanced technologies such as machine learning and robotic process automation. This will help your employees to address business problems and present future opportunities for change.

While this programme is beneficial for data scientists and specialists, it is also recommended for professionals looking to upskill and break into the field of data analytics.

What your employees will learn?

- Advanced data analytics
- Languages, code libraries and programming tools
- Machine learning algorithms
- Analytic modeling and visualisation
- Big data architectures and analytics
- Discovering insights from data to inform decision making
- Applied techniques of data mining and machine learning
- Deep learning and neural networks
- Fundamentals of RPA

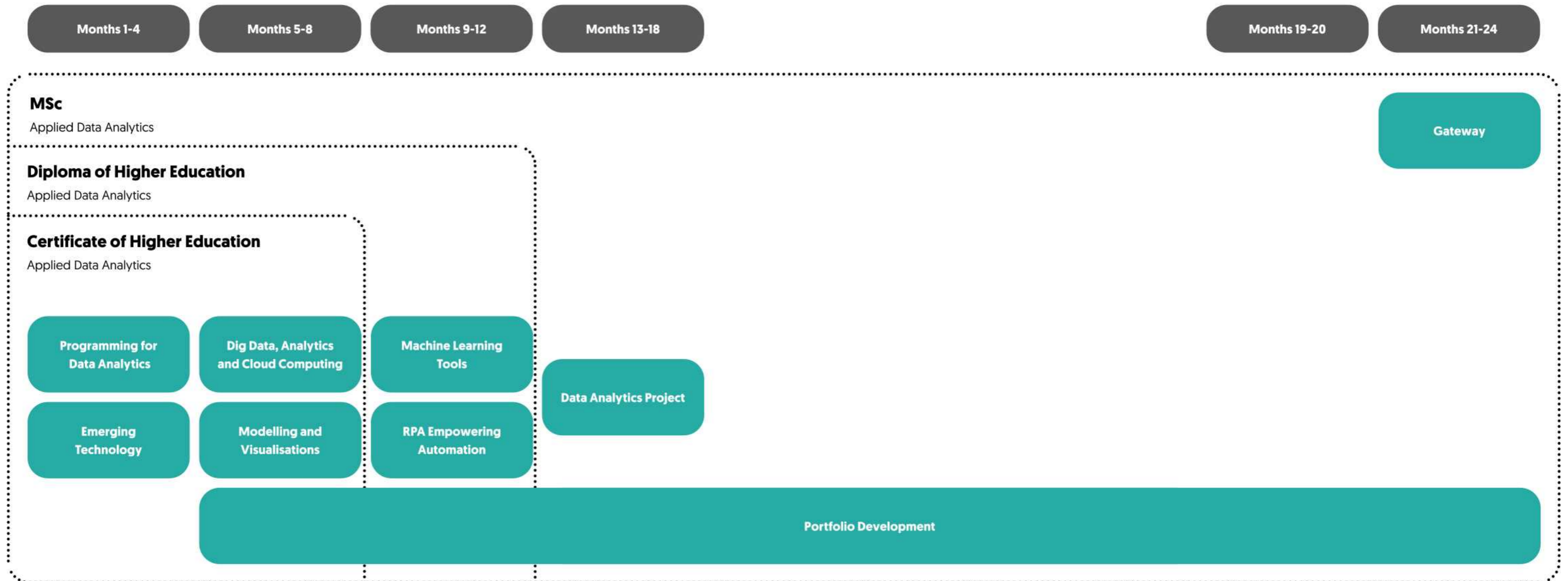
How is this programme delivered to your employees?

- All BPP programmes are available online live, providing ultimate flexibility and efficiency for your business
- There are eight modules in total, with two modules being delivered simultaneously each semester
- Employees are required to attend two x 2-hour live and interactive lectures each week using premium virtual classroom software, Adobe Connect
- E-learning content that includes video lectures, digital reading and case studies delivered on the BPP learning platform
- One-to-one meetings each semester with a dedicated Coach
- Employees are required to demonstrate the ongoing application of skills to their job role and build a portfolio of evidence that supports their professional development throughout the duration of the programme



How is this programme structured?

This 24-month programme consists of eight modules studied over 18 months, with the final six months spent completing a data analytics project.



How are employees assessed?

Each programme has a standard set of competencies, known as Knowledge, Skills and Behaviours, that are developed throughout the programme. Your employees will also complete MSc in Applied Data Analytics.

The Knowledge, Skills and Behaviours are evaluated through an End Point Assessment (EPA), which is completed in the last four months of the apprenticeship. The EPA is conducted by an external assessor and will include the following elements that need to be completed in order to finish the apprenticeship:

- A project report submitted after the gateway answering a series of critical and evaluative skills and behaviours questions based on work experience
- A professional discussion

WE'RE REVOLUTIONISING THE SKILLS LANDSCAPE

It's no secret that the UK's skills gap is slowing the adoption of game-changing technology within the manufacturing and engineering sectors. MTC Training is working to change that by creating the next generation of advanced manufacturing talent through future skills programmes that offer exciting opportunities to employers and their talent.

MTC Training provides a flexible pathway to support your workforce at every level and through each career stage. Forging partnerships with like-minded industry leading experts means an offering of end-to-end solutions that can help you to create and upskill the manufacturing talent of the future, today.

Together, we'll help you to future-proof your workforce at every level

BPP is a global leader in professional education with a long pedigree as the premium provider for accountancy, tax, financial and legal professional qualifications. BPP's school of technology likewise provides professional training to develop your commercial and practical data skills in technological applications.

BPP offers data science, data engineering and technical skills training at all levels from foundational skills and data essentials, through to degree and masters level degree programmes. In partnership with MTC Training we have developed a Data Science BSc programme that is specialised for the manufacturing sector, designed and delivered by tutors with real-world industry experience.

BPP's data science training will provide complimentary skills to support the five themes of future focus identified at the Advanced Manufacturing Training Centre (AMTC) in Coventry and Oxfordshire Advanced Skills (OAS) in Abingdon: Power Engineering, Space, Robotics and AI, Nuclear Design, and Energy Storage. This portfolio supports MTC Training's national skills strategy, helping to accelerate the commitment to support the UK's manufacturing future.

BPP's industry-focused and transformative programmes will help you to develop and retain your existing experts whilst future-proofing your business in an ever-changing technology landscape.

We provide the skills needed for the technology of today and the future

At MTC Training, we are focused on developing, maintaining and building upon the vital skills required by manufacturing graduates, technicians, engineers and managers to deliver the technologies that keep the Great British manufacturing industry globally competitive.

The industry is ever-evolving and at MTC Training, we work closely with the latest developments to deliver up-to-date, practical training to ensure that you and your staff can stay on track with the skills that they need now and in the future.

Part of our commitment to future skills is the MTC Apprenticeships programme. The advanced apprenticeship scheme is specifically designed to ensure our apprentices are future ready using our state-of-the-art facilities in Coventry or at OAS in Oxfordshire.

**TO FIND OUT MORE
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