



Edition
Three



Advanced
Manufacturing
Training Centre

catalyst

The AMTC Newsletter

www.the-amtc.co.uk

catalyst

An update from...



Paul Rowlett
Managing Director, AMTC



It was an exciting start to 2018 at the AMTC, as we received the news in January that we'd been working towards; the Manufacturing Technology Centre had been accepted onto the Register of Apprenticeship Training Providers (RoATP), confirming its role as an approved training provider by the Department of Education.

This is a major accolade for the centre and testament to the hard work that's gone on at the MTC to develop our apprenticeship training programme over the last three years, as we now set our sights on more than trebling our intake by 2020.

Early signs are very positive, with record-breaking attendances at our latest open evenings. We also aim to build on the number of female apprentices at the MTC, which has grown year-on-year and in 2017 saw the highest number of females enrol since the programme began.

The apprenticeship levy continues to open new opportunities for employers and the Department of Education announcement means that all levy funded organisations will be able to spend their levy with the MTC on the advanced manufacturing apprenticeship programme. Non-levy employers will also still be able to work with the MTC via the government funded approach.

While we will continue to operate in the traditional 16-18-year-old apprentice market, our new recognised status will significantly build on our education offering and will see MTC expand into working with adults who are already in employment, to either up-skill, multi-skill or re-train up to degree level apprenticeship level.

The successful admission onto RoATP is a huge step forwards for the MTC and will underpin our targeted growth and ongoing contribution to the manufacturing sector through high quality training and education.

Meanwhile, MTC Events has continued to go from strength to strength, reporting fantastic growth over the last 12 months with more than 80% of its footfall achieved from the high value manufacturing sector – a key benchmark for the AMTC with every penny re-invested into our apprenticeship programme.

Our commercial training offering also continues to grow, as our team works closely with the latest developments to design new courses in line with trends and technological advances. MTC Training now offers over 30 subjects delivered by experts in their respective fields and our focus remains on supporting staff to stay on track with the skills that they need now and in the future. We are also expanding our bespoke programme offering to support organisations that require a more tailored training solution.

So, as we continue to celebrate good news and success stories from across the business, there's still a lot more to come in our mission to develop and support Great British manufacturing.

We hope you enjoy reading through our latest edition of Catalyst and learning more about what's going on at the AMTC.



mtc | Apprenticeships

An update from...



Matthew Bastock
Apprenticeship Recruitment
Co-ordinator



We are entering into an exciting period for MTC Apprenticeships and our new status as an approved training partner will bring with it many opportunities.

Being accepted onto the Register of Apprenticeship Training Providers (RoATP) was a huge achievement for all involved - and not without a lot of hard work from the MTC Apprenticeships team - and, not least, it will give us a huge boost as we target to treble our intake over the next two years.

With the introduction of the Apprenticeship Levy last year, we are seeing the further and higher education landscapes evolving. It's part of our role as a training provider to support and advise both learners and employers to the opportunities available, as we continue to expand our offering at the MTC.

We are currently supporting levy paying employers with the recruitment of new learners for our Level 3 Advanced Apprenticeship in Product Design and Development commencing in September 2018. Our team pre-interview and assess applicants providing employers with a shortlisted quality calibre of CV's.

Most recently we have launched our Degree Apprenticeships – Levels 6 and 7 qualifications that provide a pathway to develop the more advanced skills sought after by employers. Delivered in partnership with one of our partner Universities, the degree-level courses also offer a valuable way to maximise levy funding and will assist in employee retention as well as recruitment. Further details about our Degree Apprenticeships can be found further on in this edition of Catalyst.

Non-levy paying employers are still central to our work at the MTC and SME's have been at the core of our Apprenticeship Programme since its launch. We have excellent relationships with a broad network of non-levy paying organisations, many of whom are local to the MTC and engage in apprentice placement opportunities.

As we grow our learning and development offering it's vital that we continue to provide the state-of-the-art facilities and equipment that the Advanced Manufacturing Training Centre is renowned for. To support with the increase in learners, we have recently installed a range of new FANUC machinery in our main workshop and expanded across into the main MTC building where we now have additional workshop space.

PLACES STILL AVAILABLE FOR
SEPTEMBER 2018 INTAKE



Apprenticeship Open Evenings

Come and find out more about our advanced engineering apprenticeship!

Hear from our tutors and existing apprentices, take a tour of our state-of-the-art facilities and watch demonstrations of the cutting-edge technology in use.

How to sign up

Signing up for our open evenings is easy and free. Simply visit the below and enter your details – parents and guardians are very welcome:

the-amtc.co.uk/myfuture/open-evenings

We look forward to welcoming you to the MTC and showing you around.

Flight Deck: supporting apprentice learning

At the MTC we pride ourselves on supporting our apprentices' learning and development beyond the workshop and the classroom.

So at the start of the academic year we introduced Flight Deck, a new programme designed to encourage autonomy, independence and responsibility amongst our cohort. Flight Deck allocates apprentices into self-managed teams with Champions who are responsible for the team's performance across a set of agreed measures such as attendance, work completion and hitting deadlines.

Each Flight Deck team also selects a charity to support, with time set aside each week for work in the community or fundraising activities.

"Flight Deck has been really well received by everyone on the programme. It generates a team ethic and encourages us to work with and support each other to develop the wider skills that will be important once we're in the workplace. The competitive element is good fun and it's definitely brought us all closer together!"

Tom
Year 2 Apprentice

Doing our bit for charity!

As part of our apprentices' wider work outside of their study programme, every Flight Deck team has chosen a charity that they will be fundraising for throughout 2018.

With almost £2,500 raised so far, we will keep you updated on their efforts over the coming months.

Chosen charities

- Teenage Cancer Trust
- Cancer Research
- Air Ambulance
- Zoey's Place
- Alzheimer's Research UK
- Prostate Cancer UK
- Myton Hospice

A Mayoral visit to the MTC

The Advanced Manufacturing Training Centre welcomed Mayor of the West Midlands Andy Street during his recent visit to Coventry.

Whilst onsite, the Mayor met with representatives from the AMTC and partner Lloyds Bank to discuss how the facility is supporting businesses locally, before touring the workshops and meeting with a number of first and second year apprentices.

Andy Street was appointed the first Mayor of the West Midlands in May 2017. Formerly managing director of John Lewis, he combined his career at Britain's most successful workers' co-operative with a host of high profile economic development roles, working with local and national government.



Introducing Degree Apprenticeships at the MTC

Maximise levy funding and develop high level skills needed to increase competitive capability

In an extension to the popular Level 3 Apprenticeship Programme, the MTC now offers Degree Apprenticeship qualifications to provide a pathway to develop the higher level skills sought after by employers.



L6 BEng (Hons) Product Design and Development Engineer Degree Apprenticeship

What is the qualification?

BEng (Hons) Advanced Manufacture and a degree apprenticeship

Length of study

5 – 6 years

Entry level

All learners will ideally have a minimum of 2 STEM A-Levels Including maths; or have completed either an Advanced Apprenticeship or Level 3 vocational qualification

Place of study

Work-based and online. Study blocks completed at the AMTC and a partnering University

L7 MBA Senior Leaders Master's Degree Apprenticeship

What is the qualification?

Master's Degree (MBA)

Length of study

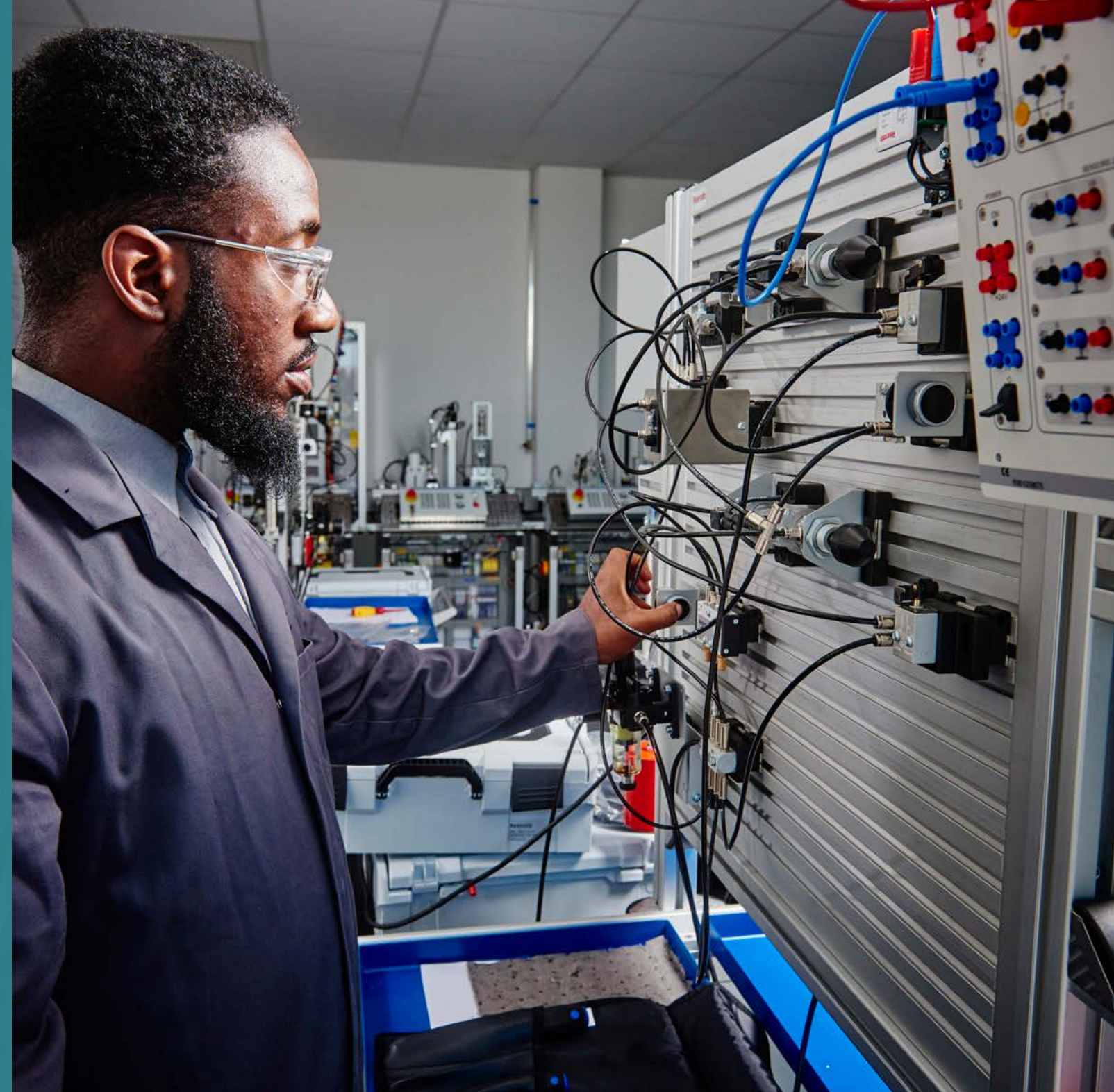
18 months – 3 years

Entry level

All learners must have degree level qualifications and 5 years' relevant work experience

Place of study

A partnering University



Interested and want to find out more?

For more information about the Degree Apprenticeships and how your company can get involved please contact:

Christian Warden
Head of Skills Development

📞 07976 607924 ✉️ christian.warden@the-mtc.org



FANUC technology introduced to Advanced Manufacturing Training Centre

MTC Employer Partner FANUC has installed a range of its technology at the Advanced Manufacturing Training Centre, as part of the MTC's continued commitment to evolve its cutting-edge training and development facilities for the next generation of engineers.

The AMTC now features six FANUC D21 ROBODRILL machining centres, complete with FANUC CNC, as well as seven educational cells, each comprising of FANUC LRMate200iD/4S robotic arms and easy-to-use control panels.

FANUC's series of ROBODRILL vertical machining centres offers high quality, precision metal-cutting with a tool change time of 0.7 seconds. With a turret able to handle tools weighing up to 4kg, the ROBODRILL represents one of the fastest and strongest 5-axis CNC machining centres on the market.

The introduction of FANUC technology to the AMTC is the latest development in what has become a close working relationship between the two organisations. Apprenticeships have long been a central element of FANUC's UK operations and AMTC apprentices are regularly placed at its Ansty Park UK headquarters, providing further training and education, as well as exposure to the latest developments in factory automation technology.



Richard Watkins, Operations Director at the AMTC, comments: "Robotics and automation are two of the MTC's key areas for developing the next generation of engineering talent. FANUC CNC is amongst the most popular machine tool control systems worldwide, and the company's iconic yellow robots can be found in manufacturing facilities across all key industrial sectors.

"FANUC's focus on bridging the skills gap, as well as the company's own apprenticeship programme, exemplifies the affinity between the two organisations, and underlines the reasons why the MTC has chosen to collaborate with the company."

Andrew Armstrong, sales and marketing manager at FANUC UK, adds: "The UK's manufacturing landscape is evolving at a pace not seen for decades. This is facilitated by the productivity and efficiency benefits derived from the greater connectivity and interoperability offered by manufacturing technology. Both the MTC and AMTC have been at the forefront of developing the next generation of engineers. Given FANUC's own commitment to fostering future engineering talent, we are delighted to be able to integrate our own state-of-the-art technology into their facilities."

Employer Partners



Become an Employer Partner

As an Employer Partner of the MTC, your organisation will directly benefit from the industry-leading training, comprehensive study programme and access to state-of-the-art facilities that every one of our learners receives on our Advanced Manufacturing Apprenticeship Programme.

Whether you are a levy-paying or non-levy paying organisation, we will work with you to select the best candidate to meet your requirements and provide you with someone who already has two years of industry-relevant skills and experience, so that they can have a positive impact on your business from the start.

Contact the team today on **02476 701 770** or at apprentice@the-mtc.org.

"To be able to have access to FANUC CNC, metal-cutting and automation technology at the AMTC will be a huge asset to our apprentices, providing them with valuable opportunities to gain first-hand experience with technologies that they are likely to use throughout their career."



Tom Bouchier
Managing Director





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An update from...

Steve Picker
Learning Development
& Delivery Manager



The MTC commercial training offering continues to go from strength to strength with many exciting new developments over the past few months.

We have launched our new, fully integrated Learning Management System (LMS), allowing learners to log in and manage their learning once signed up to an MTC course. The system provides users with a birds-eye view of their learning, with the ability to track progress and learn (where relevant) at their own pace.

Our in-house team is also expanding and our expertise growing, with new instructional designers working with MTC subject matter experts to develop an increasingly diverse range of courses, as well as being able to create bespoke courses for clients.

Our in-house expertise stretches across the entire spectrum of course development, design and delivery. The process is thorough and truly end-to-end, so you know with any MTC course it has followed best practice guidelines from the leading experts in their respective fields from start to finish.

As part of our competency framework approach, we define the required skills, knowledge and behaviours for each given area, before designing the curriculum, training

needs analysis and developing the course, again all in-house. We also pride ourselves on course delivery, with our MTC experts delivering our courses onsite or online using the latest technologies.

In pursuit of our mission to provide the Advanced Manufacturing skills needed for the technology of today and the future, we have also partnered with the Advanced Manufacturing Research Centre (AMRC) to collaboratively deliver a full range of metallurgy courses.

And lastly, MTC Apprenticeships will now provide a springboard to CPD opportunities available with MTC Training, following the recent expansion into Degree level qualifications. This means learners can continue their journey with MTC and build on their knowledge and skills in specialist areas post-Degree level.

A focus on: eLearning

eLearning courses are short, highly interactive training sessions delivered online. They are also self-paced, which means learners benefit from the opportunity to fit the study around other commitments and business needs.

At the MTC, we offer eLearning courses to cover a wide range of subject areas including Automation and Robotics, Additive and Digital Manufacturing.

Our new Learner Management System (LMS) will also advance our course delivery significantly with more interactive features, video content and visual aids to enhance learner engagement.

At a time and in an industry where the pace of change is quicker than ever, eLearning permits a faster pace of study than traditional face-to-face learning, so organisations can train larger numbers of people in less time. This is particularly important for study relating to emerging trends and new technological advances, which is an area that the MTC focuses on.

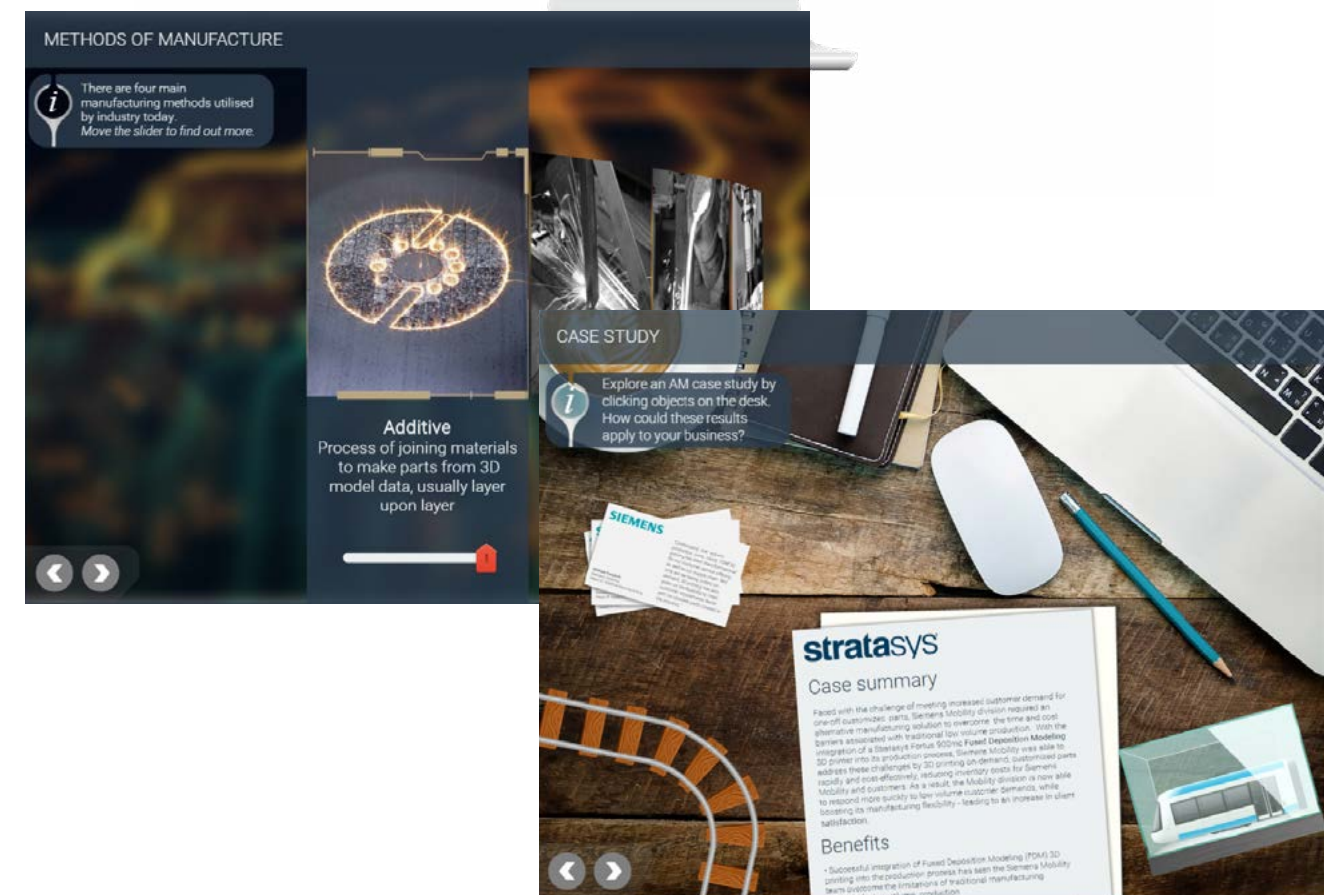


Try eLearning for free

Additive Manufacture: A Guide for Decision-Makers Part 1 provides an introduction to the seven Additive Manufacturing (AM) processes and their associated materials to support in decision-making about whether AM can be adopted by your business.

This eLearning module is aimed at business decision makers, engineering teams and anyone with an interest in learning more about Additive Manufacturing and is available to study for free.





Visit the-atmc.co.uk/training for more information and to register your interest in enrolling on the course.

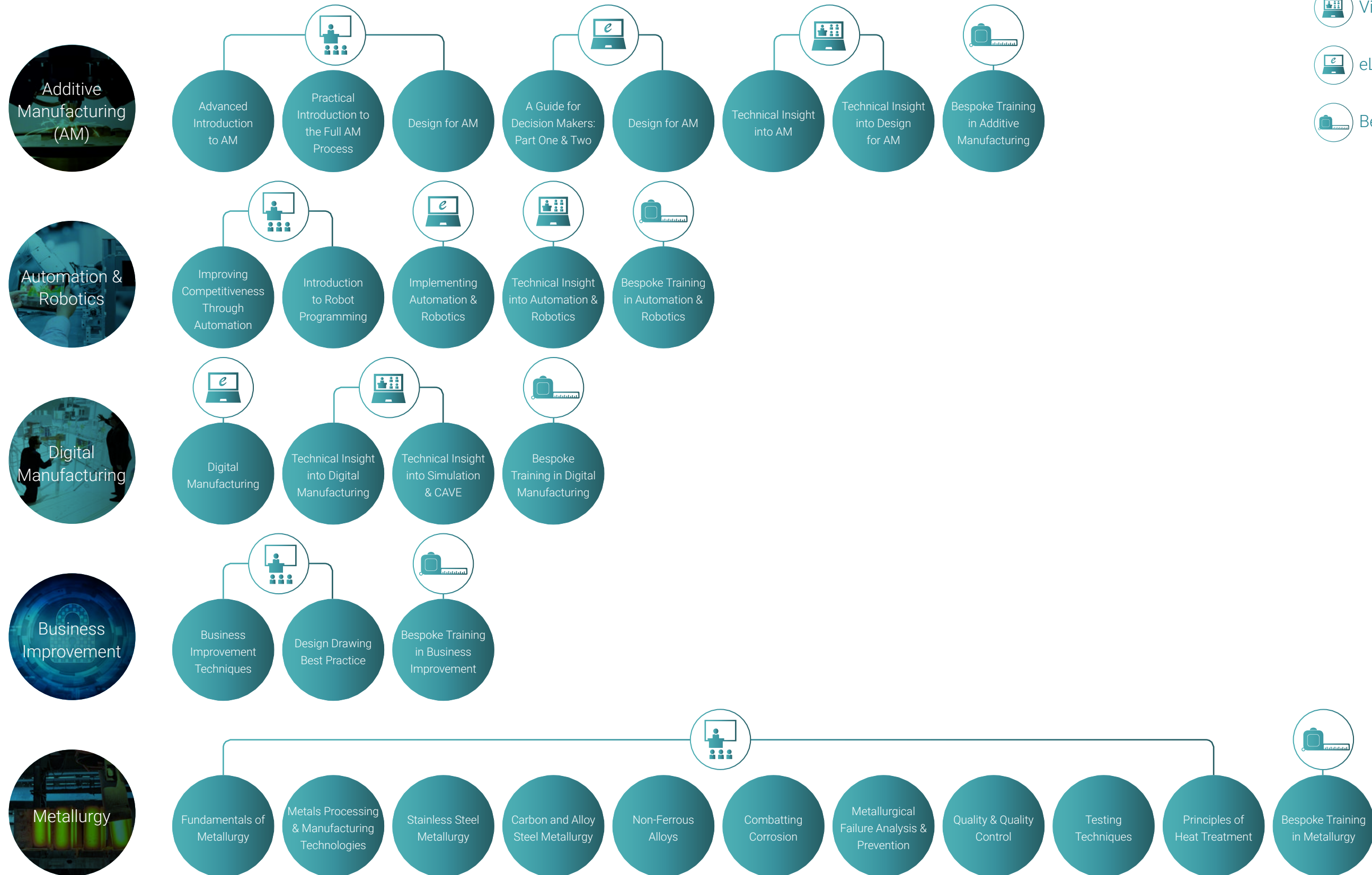


Images above are live screenshots from the Additive Manufacture: A Guide for Decision Makers Part 1 eLearning course

Course prospectus at a glance

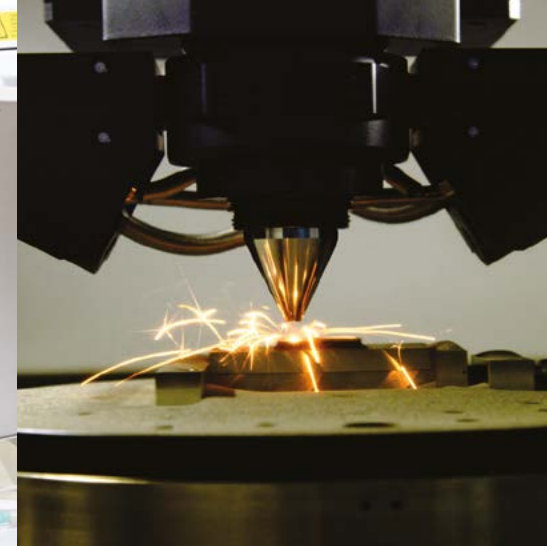
Key

-  Face-to-face
-  Virtual classroom
-  eLearning
-  Bespoke





**NATIONAL
CENTRE
ADDITIVE
MANUFACTURING**



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Stay ahead with the MTC

Home to the National Centre for Additive Manufacturing

Additive Manufacturing (AM) of metal powders is the fastest growing metal forming technology and significant market growth is expected to continue.

So do you and your staff have the knowledge and skills to maximise this opportunity?

Study Additive Manufacturing at the MTC

- A wide range of AM topics
- Courses taught using a variety of delivery methods
- Face to face and eLearning courses suitable for business decision makers, engineering teams and anyone with an interest in AM



“Fantastic, fascinating course. Absolutely cutting -edge, but delivered in an understandable and engaging way”

Jane Smith | MTC course attendee



Find out more about studying at the MTC



+44 (0)2476 701774



training@the-mtc.org



the-amtc.co.uk/training

An update from MTC Events

Richard Watkins

Operations Director, AMTC
Conference & Events Operations Manager, AMTC



2017 was another exciting year for MTC Events. In what was only our second full year in operation, we saw the business more than double in size across 12 months, an indicator that we're fast becoming well-established within the locality and the sectors that we operate in.

A key measure of success for us is also the organisations that we engage with, with footfall from companies operating in the high value manufacturing and emerging technologies industries now equal to 80% of the visitors we welcome to the AMTC. This is an achievement that we are particularly proud of and demonstrates the wider role that MTC Events plays in supporting the work of our associated business streams, apprenticeships and commercial training.

The MTC's target of trebling its apprentice intake by 2020 is an exciting one and shows real progression for the organisation; what this means for the AMTC as a conferencing and events venue is also significant, as we will reconfigure our spaces so that we continue to deliver a high level of service to our customers alongside welcoming more apprentices to the training centre.

This is something we have already started to work on over recent months, during which time we have also seen an increase in the number of MTC Members using the venue and consequently engaging with the apprenticeship programme.

As we welcome more and more organisations to the AMTC, we also continue to build on our full service solution. Our exclusive use offering is becoming increasingly popular and with the installation of new digital signage last year, customers can takeover the venue in its entirety and make a real impression with delegates.

We have also recently expanded our catering to support clients with offsite solutions, which you can read more about in this edition of Catalyst.



If you want to find out more about MTC Events and how our venue could support you and your customers, contact a member of the team today at events@the-mtc.org or on **02476 701 770**.



Accommodation management services

As a non-residential venue we have created accommodation management packages to help save our customers time and money.

We work closely with a range of local hotels and transport companies so that we can provide the following services as part of our complete event management solution:

- Source and book hotel accommodation with access to preferential rates
- Source and book transfers between our venue and chosen accommodation
- Be the sole point of contact for accommodation enquiries and bookings
- Manage payment so everything is combined into one invoice (or as required by the client)
- Arrange accommodation site visits

“We held a teambuilding event at the MTC followed by our Christmas Party at one of the partner hotels and from start to finish, the experience of working with the MTC team was fantastic. All accommodation and travel was arranged directly so we didn't have to worry about it and all our guests had to do was turn up! The facilities are excellent and being able to utilise their wider services is a huge benefit of the venue and just one of the many reasons why we use MTC to host a number of events throughout the year.”

Alex Khan
Chief Executive Officer, Lifetime Training



Expanded catering offering at the MTC

Over the last 12 months the MTC Events team have been working hard to expand the catering and Event Management operation beyond the confines of the MTC and AMTC.

Our offering has grown to support local manufacturing businesses who have limited kitchen and staff welfare facilities to provide breakfasts, lunches and dinners. Our in-house team of chefs have developed & produced bespoke menus and are committed to working directly with clients as we have with FANUC, AVL & DMG Mori. Our aim is to deliver the best possible experience and to offer something different to your typical catering service provider.

Our menus can cater for simple sandwich and boardroom working lunches, jacket potatoes with hot & cold fillings and salads, 20" sourdough pizzas with choice of toppings to a choice of buffet lunches to suit budgets. We have also recently acquired Japanese Bento boxes to offer a higher level of presentation.

In May last year we catered for the celebration of the opening of FANUC's new premises on Ansty Business Park. MTC Events provided Anglo-Japanese food stations which catered for 300 invited guests followed by a BBQ for 200 FANUC employees, family & friends from an outside marquee with a fully stocked bar service.

In July we also supported AVL's ground breaking ceremony for their new technology centre on Ansty Business Park. We provided a marquee housing a stage area with full AV provision and a buffet lunch was served. Following the success of this event, we won our bid to cater for AVL's opening ceremony. Our professional team of chefs operated at the newly opened facility and produced Austrian inspired food stations for 95 guests with a drink to toast the official opening. We also provided a full stage set up with AV and seating.

For more information about MTC's growing catering offering, please contact the team at events@the-mtc.org or on **02476 701770**.





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- Exhibition space
- 1st floor mezzanine
- 8 breakout rooms – Theatre style for up to 100
- Seasonal two course buffet lunch from our award winning caterers
- Free onsite car parking
- Free Wi-Fi
- Highest specification in-room AV equipment
- Full use of digital signage
- Unlimited tea, coffee & refreshments

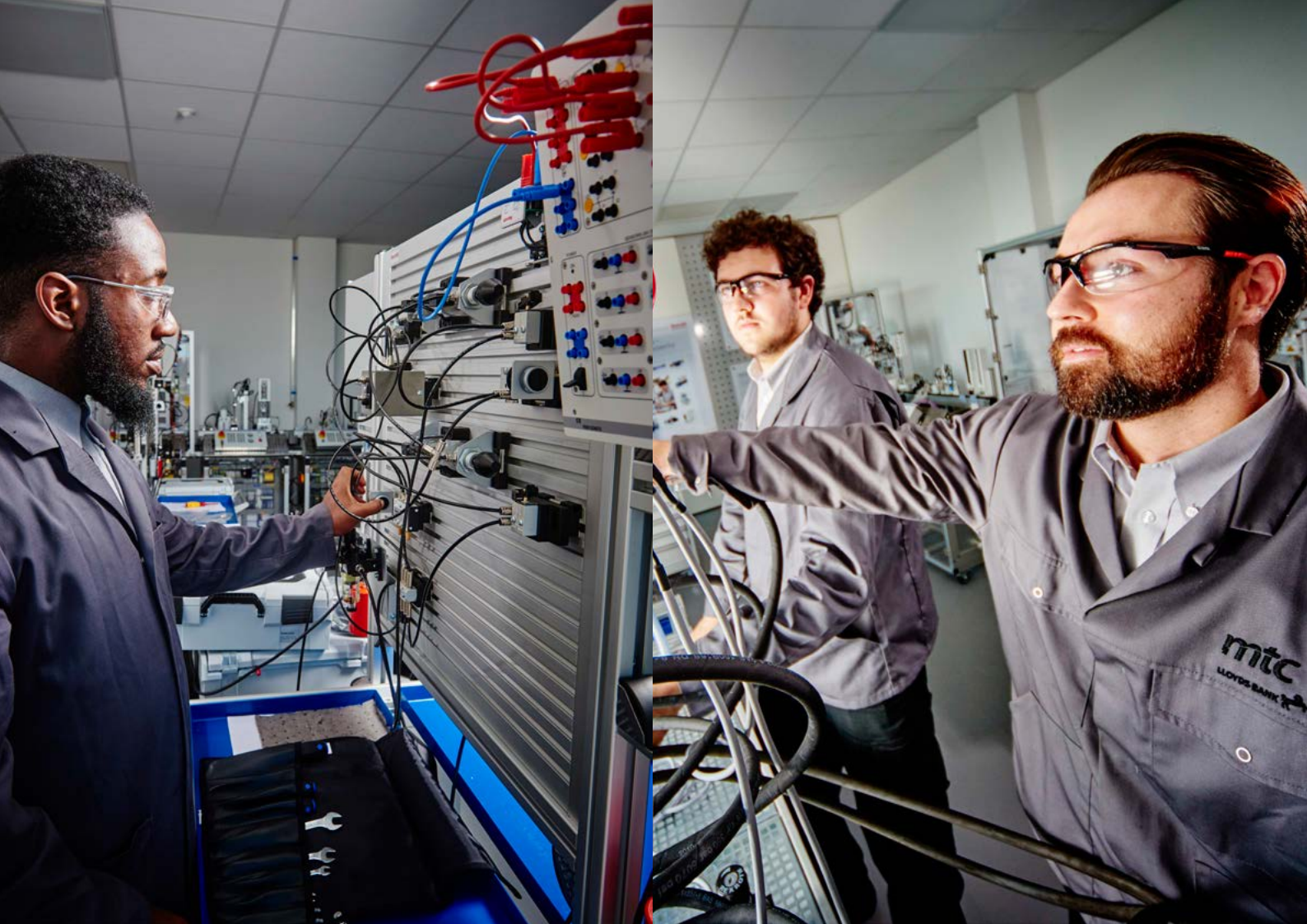
Interested?
Get in touch with our events team now and quote reference MTCEX17

+44 (0)2476 701770

events@the-mtc.org

the-amtc.co.uk/events





rexroth
A Bosch Company

Patron Profile: Bosch Rexroth

Bosch Rexroth and MTC: Bringing Industry 4.0 to the Advanced Manufacturing Training Centre

As a world leading specialist in drive and control technology, Bosch Rexroth has a wealth of expertise and experience to share with new and developing engineers.

The company provides bespoke education and training as well as qualifications for technical specialists, aimed at both establishing practical skills and driving innovation within the wider industry. It's a strategy that dovetails perfectly with the overall vision of the AMTC, which is why Bosch Rexroth became a patron of the centre in 2015.

When a manufacturer invests in its workforce to develop expert knowledge and high-quality skills, the company gains a decisive advantage in what is a competitive global environment. Training should therefore be of key strategic importance – whether that's in-house sharing of expertise or external sources such as the AMTC. Under the umbrella of its Drives & Control Academy, Bosch Rexroth sets the standard particularly in specialised and integrated know-how for team members, customers and – importantly – for institutions for training and further education.

Bosch Rexroth's involvement with the AMTC specifically tries to help address the UK skills gap in emerging fields including mechatronics and Industry 4.0, meaning that the skills learnt today will drive manufacturing in the future. The concept of Industry 4.0 is by no means new, but focus is now shifting away from educating manufacturers on what it is, to explaining (and demonstrating) how it can be implemented.

Bosch Rexroth has worked with the AMTC to provide practical training equipment at its state-of-the-art facility to support its apprentice engineers adopt Industry 4.0 techniques – from installation and programming to analysis and monitoring. This should have a positive effect – particularly by giving young people the tools to expand their knowledge and grow. By creating multi-skilled engineers and technicians, the UK's manufacturing competitiveness will be secured for the future.

The AMTC is effectively a playground for any budding engineer and is visibly leading the way forward and promoting change. The facilities it boasts, the breadth of engineering courses offered and the amount of investment that is being committed to training in this sector will no doubt encourage more young people into the profession, securing the future of British manufacturing. For Bosch Rexroth, the benefit of becoming a patron of the AMTC lies in being at the forefront of education and development, and making a tangible contribution to the individual trainees, their employers, and the industry as a whole.



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