

25 YEARS
DELIVERING
TRAINING
EXCELLENCE

2023/2024 TRAINING BROCHURE

CONTROL SYSTEMS | INDUSTRY 4.0 | ELECTRICAL | HEALTH & SAFETY | QMS



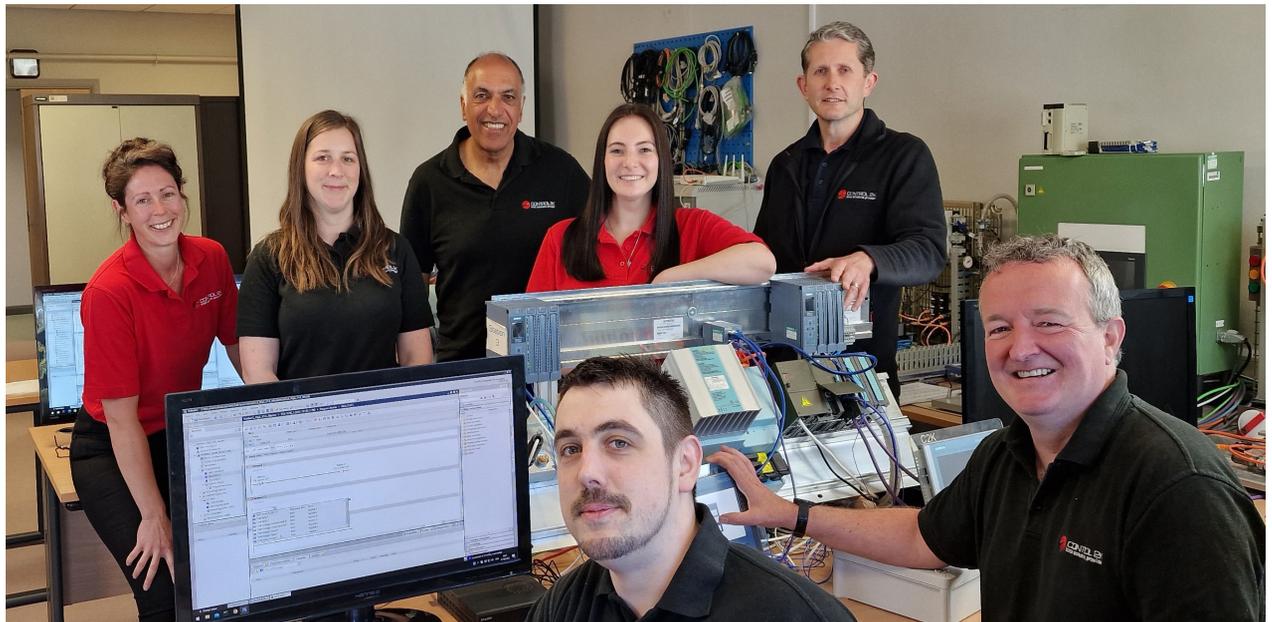
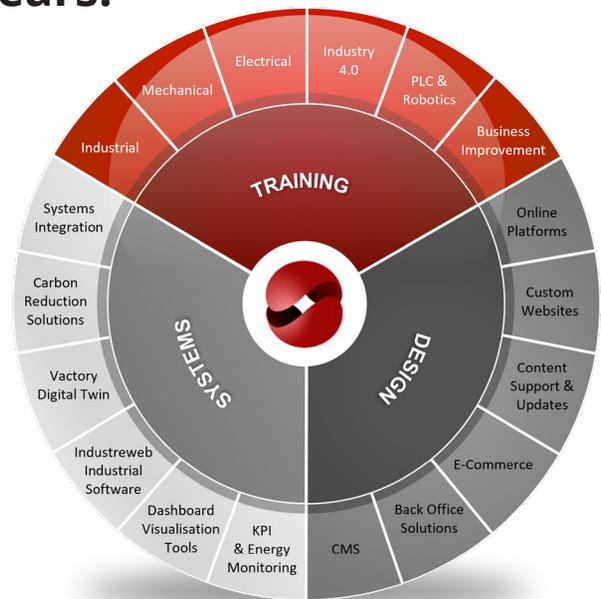
Welcome to Control 2K

Providing first class services in Industrial Training, Systems & Design for 25 Years.

Located in South Wales with a world wide reputation for Control Systems training and support, Control 2K is a total solutions provider for the manufacturing and process industries.

We provide first class industrial, mechanical and electrical training; specialising in Control Systems and Industry 4.0 capability. From bespoke training packages tailored to your company requirements, to learning pathways designed to shape your career - all delivered at our fully equipped training centre in Bridgend.

We look forward to welcoming you to Waterton Technology Centre in the near future.



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SUPPORT & FUNDING

Thinking About a New Career?

Are you an individual looking to re-train or pursue a new career?

Not sure what courses you need to take to achieve your engineering ambitions?

Book a pathways session with our Training Centre advisors to discuss your plans. Let us help you find a suitable path. Whether you are ex-Armed Forces, facing redundancy or simply looking for a change, we can provide advice on achieving your goals and become the professional you want to be.

Call our training centre on **01656 646404** to arrange your pathways session today.

At Control 2K we support various funding options to finance your learning, take a look below to see some of your options.



REACT

The Redundancy Action Scheme (ReAct) is funded training provided by the Welsh Government for people living in Wales who are facing redundancy or due to become unemployed. You can receive a training award of up to £1,500 to help you get the skills and qualifications you need to boost your CV and land a job.



ELCAS Provider

We are proud to be an Approved Learning Provider for our popular City & Guilds Electrical courses with the Ministry of Defence (MOD) Enhanced Learning Credits Scheme (ELC). This scheme helps to promote life-long learning for members of the Armed Forces.



Armed Forces Covenant

We commit to honour the Armed Forces Covenant and support the Armed Forces Community. We recognise the value Serving Personnel, both Regular and Reservists, Veterans and military families contribute to our business and country.

POPULAR COURSES

DAYS **PRICE***

Electrical Principles - Basic Skills - Industrial or Domestic Bias	5	£1,000
First Line Diagnostics	5	£1,000
Siemens TIA Portal PLC V16	4	£1,200
Pneumatics/Hydraulics	3	£600
2382-18 City & Guilds 18th Edition Wiring Regulation	3	£750
2377-77 City & Guilds Level 3 Award in Portable Appliance Testing (PAT Non Electrical Personnel)	2	£500

*All prices are subject to VAT at current rate.

Contact us via **01656 646404** or training@control2k.co.uk, or visit www.control2k.co.uk

CONTROL SYSTEMS COURSES

	REF	DAYS	PRICE*
An Introduction to Industry 4.0 An engineers introduction to the principles and associated technologies in Industry 4.0. The course includes discussion of data capture, visualisation, connectivity and process analysis of automation.	CTRL5070	2	£600
Allen Bradley PLC RS Logix 500 or 5000 - Basic Introduces delegates to features and tools of Allen Bradley PLC systems and RS-Logic 500/5000 software. Designed to give you an understanding of the core functions and configuration required to be able to program and troubleshoot a PLC.	CTRL1010 CTRL1020	2 2	£600 £600
Allen Bradley PLC RS Logix 500 or 5000 - Intermediate Following from the basic course, delegates will gain a deeper understanding of the Allen Bradley RS Logix Studio 500/5000 system. Including complex program structures, programming, fault finding features touching on PanelView HMI communications.	CTRL1030 CTRL1040	3 3	£900 £900
CNC Programming - Introduction Learn the basic principles of CNC and CNC Programming. Covering CNC geometry, offsets, programming codes focussing on practical experience.	CTRL2010	2	£600
Mitsubishi PLC Basic An introduction to Mitsubishi Q.L and FX PLC products. It explains the basic hardware structure and introduces PLC programming using the GX Works2 PLC.	CTRL3010	2	£600
Mitsubishi PLC Intermediate Based around the GX Works2 software in simple mode with labels, it runs through the advanced features.	CTRL3020	3	£900
Omron PLC - Basic This course offers an introduction to PLCs, providing delegates with knowledge of PLC hardware and its functionality through to a basic familiarity with the CX-Programmer software suite.	CTRL4020	2	£600
Omron PLC - Intermediate Delegates will gain an understanding of the more in-depth features of the Omron PLC including additional ladder logic functions and diagnostic features of the CX Programmer suite.	CTRL4030	3	£600
Siemens HMI & WinCC Flex Designed for engineers, this course covers everything you would need to know about setting up a Siemens HMI using the WinCC Flex software package. Content includes configuring a project and communication, designing screens using standard controls, recipes, alarms and messages.	CTRL5030	2	£600
Siemens S7 Profibus / Profinet For delegates with previous knowledge of Siemens S7 or TIA Portal. With focus on practical elements that will incorporate modern Ethernet networks using simple methods; how to analyse and solve complex PROFINET/PROFIBUS breakdowns using the necessary tools.	CTRL5050	1	£400
Siemens S7 to TIA Transition Designed to aid delegates to transition from S7 to TIA Portal. It covers all features found in S7 and how they translate to TIA Portal.	CTRL5060	5	£1,500
Siemens TIA Portal PLC V16 Focused on TIA Portal (V16) Software, this course gives you basic knowledge to configure, program and fault find on the new Siemens S7-1500 range. Basic HMI functionality is also covered	CTRL5020	4	£1,200

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DOMESTIC ELECTRICAL COURSES

	REF	DAYS	PRICE*
Electrical - Combined Electricity at Work Regulations (1989) - Duty Holder Helping employers and employees gain the knowledge and understanding needed to satisfy the requirements of EAW regulations and the subsequent responsibilities of the duty holder or appointed person.	ELEC2030	1	£300

CITY & GUILDS ACCREDITED ELECTRICAL COURSES

All City & Guilds courses include relevant textbooks and are approved through the ELCAS scheme for members of the Armed Forces.

2382-18 - 18th Edition IET Wiring Regulation This course will provide delegates with knowledge of the latest industry standard regulations. It is a requirement that all electrical installations comply with BS 7671:2018, 18th Edition. Price includes course book. Assessment will take place on the last day of the course.	ELEC1030	3	£750
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2377-77 - Level 3 Award in Portable Appliance Testing (PAT Non Electrical Personnel) Designed for non-electrical delegates, attendees will develop knowledge and understanding to implement a testing programme for portable electrical appliances. Price includes course book. Examination held on separate day.	ELEC1020	2	£500
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2391-52 - Level 3 Award in Initial and Periodic Inspection and Testing of Electrical Installation This course covers both Periodic Inspection and Initial Verification. Aimed at electrical personnel who carry out or supervise the testing and inspection of installations. Price includes course book. Examination held on separate day.	ELEC1060	5	£1,000
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2393-10 - Level 3 Award in Part P Building Regulations The course provides instruction on relevant parts of building regulations and approved documents. An ideal course for those wanting to become part of the competent person scheme. Assessment will be through a multiple choice on line test.	ELEC1070	1	£300
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INDUSTRIAL ENGINEERING COURSES

	REF	DAYS	PRICE*
Electrical Principles - Basic Skills - Domestic An introduction to electrical competency for a mechanically biased tradesperson moving into a multi-disciplined role. The <i>Domestic</i> course is a prerequisite for the IET Regulations 18th Edition.	ELEC2010	5	£1,000
Electrical Principles - Basic Skills - Industrial An introduction to industrial control systems, control logic, panel wiring and operation of various types of motor. The <i>Industrial</i> course is aimed towards maintenance technicians and engineers.	ELEC20	5	£1,000
Electrical - Safe Isolation - Single & Three-Phase Installation This course covers the identification of single and three-phase supplies, locking mechanisms, test instruments and lock-out tag-out procedures.	ELEC2040	1	£300
First Line Diagnostics A practical course designed for maintenance engineers, multi-skilled engineers and technicians who need to have methodical approach when responding to a plant breakdown. This will improve the diagnostic approach and lead to faster identification and resolution of faults.	INDR2010	5	£1,000
Mechanical to Electrical Conversion Part 1 M-E: Starts from the basic principles, including how electricity works, Ohms Law, circuit breakers, fuses and RCDs including practical wiring and testing. Part 2 M-E: Builds on previous theory and practical tasks and shifts towards motor control theory with practical circuit building and fault finding technical exercises. Course is split into 2 separate weeks.	ELEC3010	10	£2,000
Pneumatics / Hydraulics A hands on approach designed for maintenance engineers, technicians or operators to improve efficiency, maintenance and fault finding. This course delivers a basic understanding of pneumatic, electro-pneumatic and hydraulic systems, equipment, symbols and drawings.	INDR1010	3	£600
Welding Basic Introduction - Non Accredited Multi-disciplined introduction course is suitable for students who have never welded before, or have had the equivalent of just a few days work experience. It's designed as an introduction to the various types of welding, MIG or MMA.	INDR3010	5	£1,850
Welding Training with British Standard Certification Suitable for an experienced welder with the capability of achieving fillet and butt welds in plate in either MMA, MIG or TIG. Delegates must have completed Welding Basic Introduction or be able to demonstrate competency.	INDR3020	3	£1,350
Welding Company Bespoke Course Bespoke course is designed for specific company requirements and can be tailored towards different level of ability. One company per booking with a minimum of 3 students. Call for more information.	INDR3030	-	CALL

*All prices are subject to current VAT rate.

INTRODUCTION TO INDUSTRY 4.0

In today's modern manufacturing environment it is important to have a better understanding of the connectivity between systems and understand the key concepts of intergration and interoperability, to support the decision-making process. Most companies are keen to capitalise on the intelligence and enhanced visibility

Whether you are an engineer looking to solve a manufacturing challenge, an Operations Manager looking for improvements in your KPIs; or an MD looking to improve your bottom line – Industry 4.0 is all about the tools and knowledge you need for the engineering of the future.

Why Industry 4.0?

Developing a holistic and consolidated understanding of the application and benefits of simulation and digital twinning in manufacturing environments.

Understanding and articulating the business case for introducing simulation and digital twinning, as well as determining the potential application of the technology in a specific industrial setting.

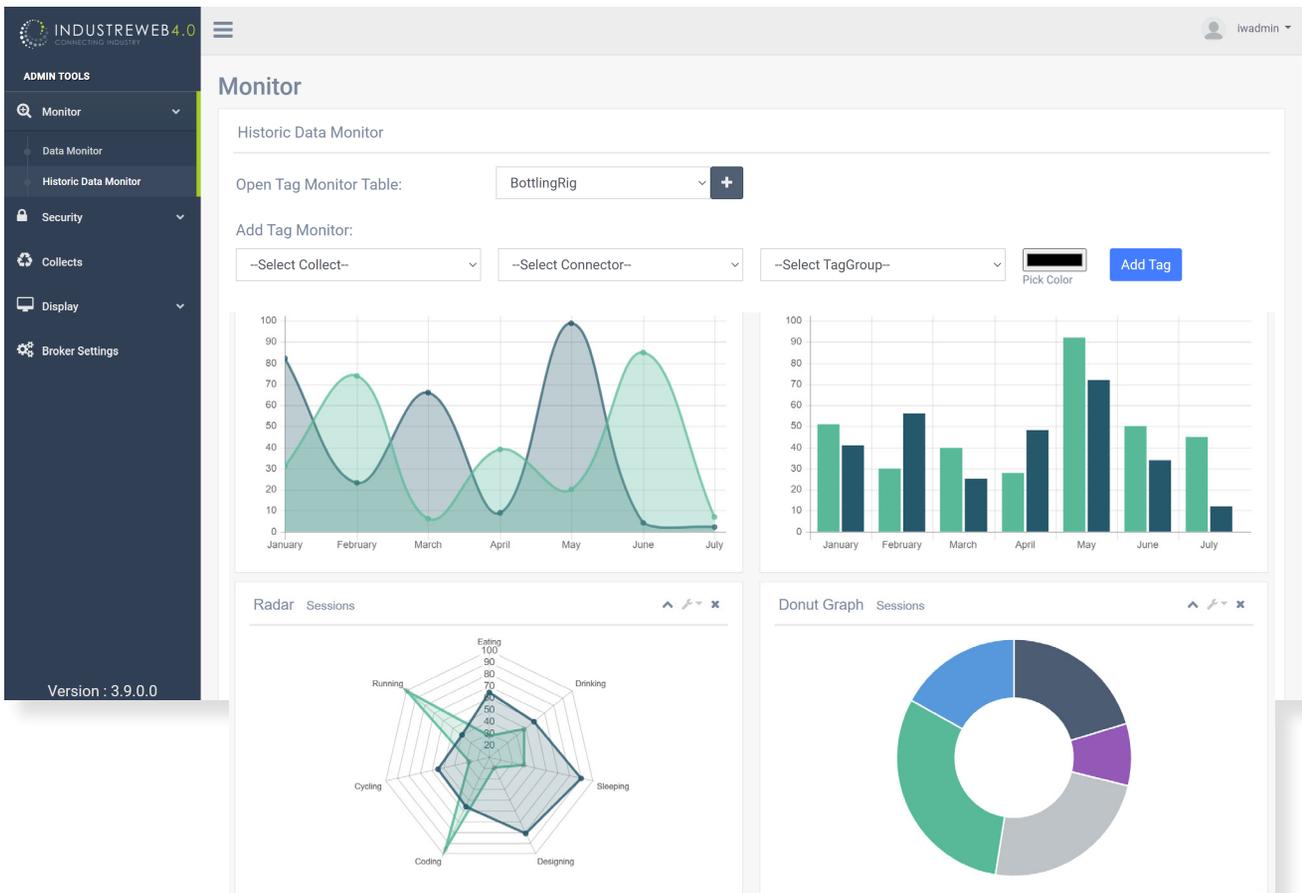
Course Content

- What is Industry 4.0 in a manufacturing context?
- Industry 4.0 instrumentation - Technology Elements
- Industrial Cyber Security
- Applications for Industry 4.0
- Data aggregation and analytics
- Process simulation and optimisation using digital twins



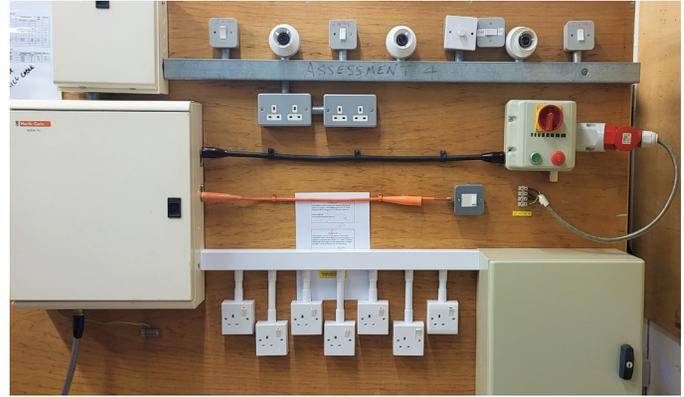
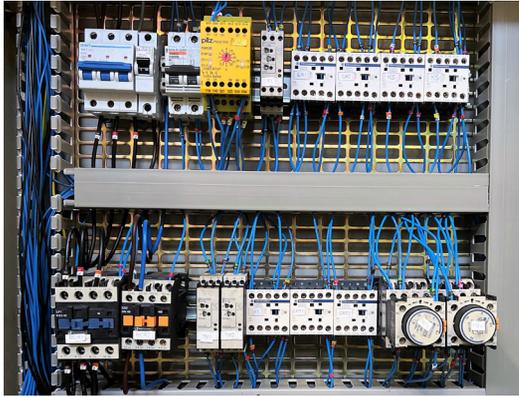
Priced at £600 + VAT* for 2 days.
Course Code - CTRL5070

*Price subject to VAT at current rate.



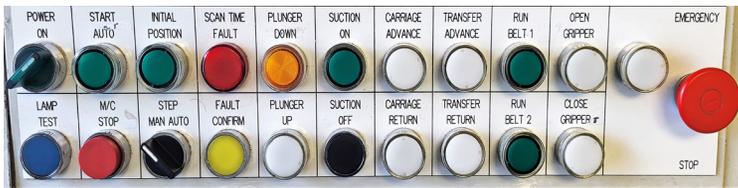
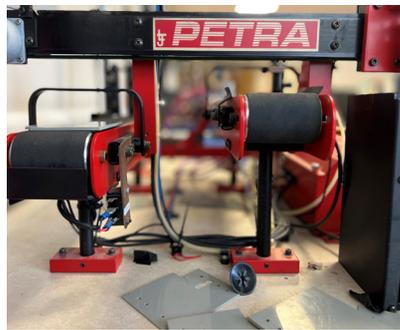
PRACTICAL ELECTRICAL TRAINING

"A very informative course. I enjoyed the practical activities. Instructor was able to answer my questions about my Electrics assignment I am completing for University as well, which I hadn't been able to understand until now. Thank you!" Heather, C. ★★★★★



PLC TRAINING WITH FIRST CLASS TRAINING RIGS

"Really enjoyed the course and would certainly recommend it to others." Michael, C. ★★★★★



PNEUMATICS AND HYDRAULICS

"Very enjoyable course that was relevant to my course needs. Very friendly and knowledgeable tutor whose experience shone through. I would highly recommend Control 2K to anyone who needs relevant training. Food and facilities were 5 star thank you!" Ian, G. ★★★★★



IOSH

REF DAYS PRICE*

IOSH - Managing Safely

The number one health and safety course in any sector. This course will ensure you can assess and control risks and hazards, understand your responsibilities around health and safety, enable you to investigate incidents and gain knowledge, skills and confidence to manage health and safety within your team.

HSAF1010 3 £495

IOSH - Working Safely

Covers the essentials of health and safety in the workplace and is aimed at all employees within all organisations.

HSAF2330 1 £145

IOSH can also be delivered onsite, please call for more details.

- - CALL

CIEH ACCREDITED COURSES

CIEH Foundation Certificate in Manual Handling (Level 2)

Legislation requires employers to take appropriate steps to reduce risk of injury to employees. This qualification combines the theory and practical elements of manual handling, teaching techniques to lift, carry, push and pull objects safely.

HSAF1090 0.5 £150

CIEH Intermediate Certificate in First Aid at Work (Level 3)

Provides delegates with sufficient skills and knowledge to carry out the role of a First Aider in the workplace in accordance with current legislative requirements. Suitable for anyone wishing to be the designated First Aider in the workplace.

HSAF1040 3 £680

IN-HOUSE SAFETY COURSES

Abrasive Wheel Safety (Portable Grinders)

Provides delegates with information that will enable them to change, replace and maintain cutting discs on portable grinding machines. They can then use them safely and in accordance with requirements of the provision and use of Work Equipment Regulations 1998 (PUWER).

HSAF2050 0.5 £150

Introduction to COSHH

Developed to provide those working near hazardous substances with knowledge of risks and what their responsibilities are under current legislation. You will find out about associated health risks and cover the benefits of following COSHH guidelines.

HSAF2140 1 £295

Safe Use of Abrasive Wheels

This course will provide an introduction to working safely with abrasive wheels so you can understand the risks and know which control measures are needed to prevent injury. Also allowing for familiarisation with the associated regulations.

HSAF2190 1 £295

Safe Use of Engineering Workshop Equipment

This programme has been developed to provide delegates with an understanding of major risks in workshops and how to control them in order to minimise injuries.

HSAF2200 1 £295

Safe Use of Power Hand Tools

Introduces delegates to skills for using power hand tools, in accordance with health and safety legislation and in addition to best work practices.

HSAF2220 1 £295

Working at Heights

This programme introduces delegates to the requirements of the current "Working at Heights Regulations 2005", so that individuals can comply with their duties, whether planning, controlling or conducting work tasks at height.

HSAF2310 1 £295

***All prices are subject to VAT at current rate.**

ISO 9001:2015

	REF	DAYS	PRICE*
<p>Certification to ISO 9001:2015 Tailored to suit your business requirements, the ISO 9001:2015 standard is utilised in developing training of policies and procedures thus facilitating achievement of the role of Internal Auditor, as well as an implementation of ISO management systems. Assessment by a UKAS accredited certification body is included.</p>	BMBA1030	TBC	CALL
<p>Introduction to ISO 9001:2015 An overview of what the ISO 9001:2015 standard requires. This course will benefit those who are managing, or would like to manage an ISO based quality management system.</p>	BMBA1010	1	£345

LEAN TOOLS AND TECHNIQUES

<p>5S Workplace Organisation An introduction to the 5S methodology, incorporating the use of visual displays and visual controls to minimise clutter and introduce orderly process to the work place. SORT, SET, SHINE, STANDARDISE and SUSTAIN.</p>	BMBA2050	1	£295
<p>Changeover Reduction (SMED) To ensure delegates understand the systematic approach to the measurement and reduction of lost production time.</p>	BMBA2250	1	£295
<p>Continuous Improvement Introduces improvement techniques that can be applied in any environment. Achieve greater efficiencies through process mapping to deliver improvements.</p>	BMBA2230	1	£295
<p>Introduction to Lean Awareness An overview of 'Lean Thinking' to enable processes to be delivered better, faster and cheaper.</p>	BMBA2210	1	£295
<p>Six Sigma Green Belt Training This highly interactive course is designed for people who will get involved in Six Sigma improvement projects in their workplace.</p>	BMBA2280	5	£295
<p>Total Productive Manufacturing Learn how to recognise methods and training which can show you how to increase the output and efficiency of equipment.</p>	BMBA2240	1	£295

LEADERSHIP AND MANAGEMENT COURSES

<p>Effective Leadership Develop skills that will ensure effective leadership of a team and its managers, with the objective of maximising performance. Explore leadership techniques and learning styles and create more effective teams.</p>	BMBA2270	1	£295
<p>Project Management The course aims to provide managers with an understanding of the techniques available and how they may be used in the management of projects.</p>	BMBA2150	1	£295
<p>Strategy and Direction Setting A practical training in business strategy, developing mission statements and SMART objectives. Tips and tools for engaging your board members.</p>	BMBA2160	1	£295

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BOOKING INFORMATION

Courses can be booked online or over the telephone, payment can be made by card or by invoice and must be made prior to the course start date.

Each delegate will receive joining instructions prior to the start date of their chosen course, together with any health and safety policies. Any cancellations must be received 2 weeks prior to the course start date.

All prices are subject to VAT at current rate.

For our full cancellation policy and further information, please consult our website where the full terms and conditions are published:

<https://www.control2k.co.uk/termsandconditions>

Training Accounts available subject to conditions, please contact training@control2k.co.uk for further details.

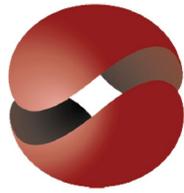
Training Accounts

We specialise in creating bespoke training for your new recruits, apprentices and long-established teams. Creating a company training account with us gives you the ability to customise our courses so that they relate to your industry requirements. Set up your own unique training schedule and pay monthly on account.

Start the ball rolling and get ahead of your competitors today. Call our Training Centre on **01656 646404** to discuss your requirements.

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CONTROL 2K

total solutions provider

Providing you with solutions for
Training, Design & Systems



www.control2k.co.uk

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