

**LEARNING &
DEVELOPMENT**

Institution of
**MECHANICAL
ENGINEERS**

TRAINING CALENDAR

July to December 2023

**BUY ONE GET ONE HALF
PRICE ON 2023 COURSES***

*View terms and conditions at imeche.org/h2cal23

Why choose IMechE?

The Institution works with leading organisations and universities to create and share engineering knowledge and provide government, businesses and the public with innovative, authoritative, impartial information.

This unique perspective into engineering enables us to provide relevant, up-to-date services to individuals and organisations.

Over 200 courses and qualifications spread across 13 categories

Our knowledge of the industry enables us to provide relevant and up-to-date technical, leadership and business training courses and programmes on a variety of topics.

Continuing professional development (CPD)

Each of our courses is mapped to UK-SPEC and contributes towards the ongoing CPD requirement for professional engineers already registered with the Engineering Council.

Diagnostic tools

We offer a range of online diagnostic tools, for both individual and team performance, that can provide a quick and accurate analysis of strengths and any areas in need of development.

Coaching

Our coaching service can be used at all levels of management and leadership, for individuals who want to improve their own performance or work towards achieving a specific objective. We work closely with participants to understand objectives and specific challenges.



Average customer rating:

4.75 out of 5



We are ISO accredited



For more information or to discuss your training requirements, call **+44 (0)20 7304 6907** or email **training@imeche.org**.

imeche.org/training

Training calendar July to December 2023

Business, leadership and technical training to help engineers develop the skills required to transform careers and organisations.

Key: - Bring a colleague for free - New - Qualification - Bundle

PERSONAL DEVELOPMENT				
Course name	Date	Location	UK-SPEC	
Applying ethical principles	12 Jul	London	B, C, D, E	
Communication and influencing	2-3 Aug	Bristol	D, E	
	12 Sep	Online		
	11-12 Dec	London		
Confident presenting	18-19 Jul	London	C, D, E	
	7-8 Nov			
Early career development programme (2 years)	25 Sep	Online	A, B, C, D, E	
Innovation and problem solving	21-22 Sep	Coventry	B, C, D	
Managing time	25 Jul	London	D, E	
	9 Nov			
Mental health first aid	26-27 Sep	London	E	
Personal effectiveness masterclass	12 Sep	Online	C, D	

LEADERSHIP AND MANAGEMENT				
Course name	Date	Location	UK-SPEC	
Aspiring engineering manager	1 Aug	Sheffield	C, D, E	
	30 Nov	London		
Business strategy for engineering managers	2-3 Nov	London	C, D, E	
Chartered Manager Bootcamp	27-30 Nov	Warwick	C, D, E	
Leading change	8 Aug	London	C, D, E	
Leading without formal authority	18-19 Jul	London	C, D	
	12-13 Sep	Coventry		
	7-8 Dec	London		
Leadership practice	26 Sep	London	C, D, E	
Managing across generations	11 Dec	London	C, D, E	
Managing team and individual performance	1-2 Nov	London	C, D	
Managing virtual teams	8, 9 & 10 Aug	Online	C, D, E	
Mentoring for MPDS	24 Aug	Glasgow	C, E	
	19 Oct	Bristol		
	30 Oct	Online		
	6 Dec	London		
Mentoring skills	5 Dec	London	C, D, E	
New engineering manager	4-5 Jul	Sheffield	C, D, E	
	23-24 Aug	Bristol		
	6-7 Sep	London		
	17-18 Oct	Sheffield		
	5 Dec	Online		
Senior engineering manager	19-20 Dec	London	B, C, D, E	

BUSINESS AND COMMERCIAL				
Course name	Date	Location	UK-SPEC	
Business skills for graduate engineers	6-7 Jul	London	C, D, E	👤+👤
	14-15 Nov			
Commercial risk	18-19 Oct	London	C, D, E	👤+👤
Commercial skills	18-19 Jul	London	C, D, E	👤+👤
	19-20 Sep			
Consultative selling	21-22 Sep	Sheffield	C, D	👤+👤
Contract law and contract drafting	6-7 Sep	Coventry	B, D, E	
Cost estimating	9 Oct	London	B, C	
Customer service excellence	10-11 Oct	London	D, E	👤+👤
Financial management	10-11 Jul	London	C, E	
	2-3 Oct	Coventry		
Managing supply chain risk	11-12 Oct	London	C, D	
Negotiation skills	16-17 Nov	London	C, D, E	👤+👤
Procurement for engineers	4 Sep	London	C, D, E	
Understanding intellectual property for engineers	14 Nov	London	B, C	
Writing effective business proposals	2 Nov	London	C, D, E	

PROJECT MANAGEMENT				
Course name	Date	Location	UK-SPEC	
APM Project Fundamentals Qualification (PFQ)	11-12 Dec	London	A, B, C	👤+👤+👤
APM Project Management Qualification (PMQ)	27 Nov - 1 Dec	London	C, E	👤+👤+👤
Leading your project team	21 Sep	London	C, D, E	
Managing engineering projects	19-20 Jul	Online	C, D, E	
	4-5 Sep	London		
	9-10 Nov	Coventry		
Project planning	16 Oct	London	C, E	
Project risk management	17 Oct	London	B, C, E	
Project working for engineers	20 Nov	London	C, D, E	
R&D project management	5-6 Sep	Sheffield	A, B, C	
	24-25 Oct	London		
Stakeholder management	12 Oct	London	C, D, E	👤+👤

View our online project management qualifications (inc. APM, PMP, PRINCE2) at imeche.org/PMqualifications

ENERGY				
Course name	Date	Location	UK-SPEC	
Carbon capture utilisation and storage (CCUS)	10-11 Jul	London	A, B, C, E	
	27-28 Nov			
Clean hydrogen: technologies, economics and growth pathways	16-17 Oct	London	A, B, C, E	
Energy system in transition	13-14 Sep	London	A, B, E	
Energy storage	9-10 Aug	London	A, B, E	
	18-19 Oct			
Green hydrogen	12-13 Jul	London	C, D, E	
	29-30 Nov			

Hydrogen storage and transportation	11-12 Sep	London	A, B, E	
Solutions for flexible clean power	18-19 Oct	London	A, B, E	
Wind energy fundamentals	6 Dec	Online	B, C, E	

ENGINEERING ESSENTIALS				
Course name	Date	Location	UK-SPEC	
CDM regulations	16 Oct	London	C, E	
Electrical principles	12 Jul	Sheffield	B, E	
	9 Aug	London		
	6 Sep	Online		
	8 Nov	London		
Electrical schematics	13 Jul	Sheffield	C, E	
	10 Aug	London		
	9 Nov	London		
Fault finding techniques: Introduction	4-5 Oct	London	B, C, E	
Gears and gearboxes: Introduction	3, 10 and 17 Oct	Online	A, B	
Geometric dimensioning and tolerancing: ASME Y14.5	13-15 Dec	London	A, B, C, E	
Geometric dimensioning and tolerancing (GD&T): BS 8888 and ISO	3-5 Jul	Coventry	A, B, C, D, E	
	12-14 Sep	London		
Introduction to mechanical engineering	13-14 Sep	London	B, E	
Introduction to systems engineering	5-6 Oct	London	A, B, C, E	
Non-destructive testing: An introduction	12 Oct	Sheffield	A, B, E	
Preparing engineering specifications	27-28 Sep	London	B, D, E	
	1 Nov	Online		
Presenting technical information	2-3 Oct	London	D, E	
Principles of commissioning	17 Oct	London	B, C, D, E	
Reviewing engineering documents	4 Jul	Online	D	
	22 Nov	London		
Technical report writing	20 Jul	Coventry	D	
	25 Sep	Online		
	11 Oct	London		
	20 Nov	Sheffield		
Technical report writing: Extension	23 Nov	London	D	
Tolerance analysis	4 Jul	London	B, E	
	10 Oct			

MAINTENANCE MANAGEMENT				
Course name	Date	Location	UK-SPEC	
Asset management	4 Oct	Online	B, C, D, E	
Maintenance planning and scheduling – introduction	5 Jul	Online	B, C, E	
Maintenance planning and scheduling	2-3 Oct	London	B, C, E	
Reliability centred and risk-based maintenance (RCM and RBM)	4 Jul	Online	B, C, E	
	23 Oct			
World class maintenance	11 Oct	Online	B, C, E	

MATERIALS				
Course name	Date	Location	UK-SPEC	
Carbon and alloy steel metallurgy	21 Nov	London	A, B, E	
Combatting corrosion	18 Sep	London	A, B, E	
Composite design and analysis	3 Oct	Online	A, B, E	
Composite fundamentals	24 Oct	Online	A, B, E	
Composite materials and manufacturing	6 Dec	Online	A, B, E	
Fundamentals of metallurgy	6 Jul	London	A, B, E	
	19 Sep			
Introduction to fatigue failure	25 Sep	London	A, B, E	★
Metallurgy for non-metallurgists	20-21 Sep	London	A, B, E	
Principles of heat treatment	23 Nov	London	A, B, E	
Stainless steel metallurgy	22 Nov	London	A, B, E	

OPERATIONAL EXCELLENCE				
Course name	Date	Location	UK-SPEC	
21st Century TRIZ	19 Sep	Sheffield	A, B, C, E	
8D problem solving	21 Nov	London	B, E	
Failure modes and effects analysis (FMEA)	2 Oct	London	B, C, D, E	
Introduction to structured problem solving using Lean Sigma	12 Sep	London	C, D	
Lean practitioner	26-28 Sep	London	A, B, C	
Root cause analysis	3 Oct	London	C, D, E	
Six Sigma Yellow Belt	4-5 Oct	London	A, B, C	👤
Statistical process control	8 Sep	London	C, D	

PRODUCT LIFECYCLE				
Course name	Date	Location	UK-SPEC	
Additive manufacturing (3D printing): Fundamentals	4 Jul	Online	A, B	
	4 Sep			
Additive manufacturing (3D printing): Impacting business	12 Jul	Online	A, B	
	18 Sep			
Design for manufacturability	25 Jul	Online	B, C, D, E	
	7 Nov	London		
Design reviews	25 Jul	Online	B, C, D, E	
	14-15 Nov	London		
New product introduction	24-25 Oct	London	B, E	
Re-engineering for a circular economy	17 Oct	London	A, B, C, D, E	
Sustainable product lifecycle design	18 Oct	London	A, B, C, D, E	
Value engineering	8 Nov	London	B, E	

RAILWAY				
Course name	Date	Location	UK-SPEC	
Condition based maintenance	4-5 Oct	London	A, B, E	
European rail traffic management system (ERTMS)	18 Oct	London	E	
Modern traction and braking systems	31 Oct	London	A, B	
Rail industry hazards and risks	5-6 Dec	London	A	
Rail safety analysis	12-13 Dec	London	A	
Railway signalling technologies	9-13 Oct	London	A	

Railway signalling overview	29 Nov	London	A, B, E	
Railway vehicle authorisation processes	21 Nov	London	C, E	
Train control and safety systems	14 Nov	London	E	
UK mainline railway framework	5 Dec	London	C, E	
UK rail infrastructure	13 Dec	London	C, E	
UK traction and rolling stock	6 Dec	London	A, B, E	
Vehicle dynamics and vehicle track interaction	6-7 Dec	London	A	

SAFETY AND RISK				
Course name	Date	Location	UK-SPEC	
Bowtie risk management	12-13 Sep	London	B, C, D	
Fault tree and event tree analysis	19-20 Sep	London	B, C, E	
Functional safety of safety-related systems	22-23 Nov	London	B, E	
Hazard identification	3 Nov	London	B, C, D, E	
Human factors in design and operations	5-6 Sep	London	B, D, E	
Incident investigation & analysis	3-4 Oct	London	B, C, E	
Principles of risk management	1-2 Nov	London	A, B, E	
Risk analysis	8-9 Nov	London	D, E	
Risk reduction & ALARP	15-16 Nov	London	B, C, D, E	

THERMOFLUIDS				
Course name	Date	Location	UK-SPEC	
Design of piping systems	30-31 Oct	London	B, E	
Heating, ventilation and air conditioning (HVAC) design	4 Sep	Online	B, E	
Hydraulics and pneumatics: Introduction	6-7 Nov	London	B, E	
Pipe stress analysis	18 Sep	Online	B	
	4-5 Dec	London		
Pressure testing	20 Sep	Online	B, E	
Pump fundamentals	3 Jul	Online	B, E	
	25 Sep	Sheffield		
	20 Nov	London		
Pump repair and maintenance	28-29 Sep	Sheffield	A, B, E	
	23-24 Nov	London		
Pump selection	5 Jul	Online	B, C, D, E	
	26 Sep	Sheffield		
	21 Nov	London		
Pipe stress analysis	18 Sep	Online	D	
	4-5 Dec	London		
Pump systems	4 Jul	Online	B, E	
	27 Sep	Sheffield		
	22 Nov	London		



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What are the benefits?

Cost-effective – depending on the number of people you want to develop, in-company training is often cheaper than sending multiple delegates on scheduled courses elsewhere.

Flexible delivery – no matter where you are in the world, we can visit your office/venue and deliver training on dates that suit you and in numerous formats, including virtual only; minimising disruption to your business and saving you time.

Specific to your business – our training supports CPD and can be designed to meet your requirements. We make sure every module is relevant to your staff.

Maximised learning – you can develop several people at the same time, in an efficient and consistent way – this means everybody moves forward together.

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