

The Institution of  
**StructuralEngineers**

# Professional Development Courses

**2025 Programme**

[istructe.org/cpd-2025](http://istructe.org/cpd-2025)





Welcome to the Institution of Structural Engineers' 2025 Continuing Professional Development training programme.

Our programme is designed to support learning and development for structural engineers and other professionals working in the construction sector at every stage of their career.

Each year we are proud to train more than 900 individuals on a wide range of technical topics as well as leadership, management, and business practice skills.

Our comprehensive programme of courses is developed and delivered in partnership with trusted tutors to ensure the highest quality learning experience. Our tutors are leading experts from industry, academic institutions, and trade and professional organisations.

We understand that flexibility is key to effective learning. So, our training is offered in a variety of formats to meet your specific needs and preferences. We offer training:

- live online
- in-person at our London Headquarters and other locations
- in-house at your company premises
- on-demand

We can't wait to help more structural engineers and other professionals develop their skills in 2025.

Please get in touch to discuss how we can support you.

**“Competence is not only one of the Institution’s core values, but a legal requirement. We understand that developing skills through technical and professional development is essential for any practitioner in a changing world.**

**The CPD programme is carefully crafted to align with the Institution’s technical priorities of safety and sustainability. Our courses provide up-to-date, industry-relevant training to help you develop the skills you need and ensure you stay up to date with best practice.”**

## How to book



**Book online**  
[www.istructe.org/cpd-2025](http://www.istructe.org/cpd-2025)

## Contact us

**Email**  
[training@istructe.org](mailto:training@istructe.org)

**Telephone**  
+44 (0)20 7235 4535

## Useful information

1.  This icon indicates that a course takes place online.
2.  This icon indicates that a course takes place in-person.
3. Unless stated otherwise, in-person courses are held at our London HQ.
4. Unless stated otherwise, courses are a full day (usually 10:00–17:30).
5. The programme is subject to change. Please check the website for latest information.



**Louise Tingley**  
Head of Professional Development and Events, The Institution of Structural Engineers  
[training@istructe.org](mailto:training@istructe.org)



**Patrick Hayes**  
Technical Director, The Institution of Structural Engineers

# 2025 training calendar at a glance

| January/February  | Date(s)                | Delivery format   |
|---|------------------------|-------------------|
| Eurocode 9: design of aluminium structures                  | 30 January             | Online            |
| Historic timber structures: assessment and reuse            | 10 February            | Online            |
| Temporary works design                                      | 12 – 13 February       | Online            |
| Practical law: dealing with domestic clients                | 18 February            | Online            |
| Eurocode 3: structural steelwork design                     | 19 February            | In-person, London |
| Lateral stability of building structures                    | 20 February            | Online            |
| Conceptual design for structural engineers: an introduction | 27 February – 20 March | Online            |
| Net-zero structural design                                  | 27 February – 27 March | Online            |

| March   | Date(s)  | Delivery format   |
|---|----------|-------------------|
| Business and strategic planning   | 04 March | Online            |
| Eurocode 2: design of concrete structures   | 18 March | In-person, London |
| Building resilience: protective design and blast engineering for structures         | 20 March | Online            |
| Eurocode 8: an introduction to seismic design of buildings                          | 25 March | Online            |
| Eurocode 8: worked examples of the dynamic analysis and seismic design of buildings | 26 March | Online            |

| April   | Date(s)       | Delivery format |
|---|---------------|-----------------|
| Understanding structural behaviour  | 01 – 02 April | Online          |
| Rapid calculations for structural engineers                                 | 04 April      | Online          |
| Practical law: client appointments and terms of engagement: a legal toolkit | 08 April      | Online          |
| Eurocode 3: structural steelwork design                                     | 10 April      | Online          |

| May   | Date(s)          | Delivery format   |
|---|------------------|-------------------|
| Conceptual design for structural engineers: an introduction | 01 – 22 May      | Online            |
| Influencing and leadership skills                           | 06 May – 03 June | Online            |
| Drawing gym for engineers                                   | 07 – 28 May      | Online            |
| Structural robustness and disproportionate collapse         | 08 May           | In-person, London |
| Exam preparation  | 12 – 14 May      | In-person, London |
| Expert Witness: an introduction                             | 27 – 30 May      | Online            |
| Seismic design of structures                                | 28 – 29 May      | Online            |

| June   | Date(s)      | Delivery format   |
|--|--------------|-------------------|
| Historic timber structures: assessment and reuse             | 02 June      | In-person, London |
| Understanding structural design                              | 05 – 06 June | Online            |
| Advanced conceptual design for design team leaders           | 05 – 20 June | Online            |
| Eurocode 5: the essentials of timber design                  | 09 June      | Online            |
| Eurocode 5: connections and advanced topics in timber design | 10 June      | Online            |
| Adaptive reuse of existing buildings                         | 11 June      | In-person, London |
| Writing skills for engineers                                 | 12 June      | Online            |
| Efficient structural design concepts                         | 16 June      | Online            |
| Floor vibration design and mitigation                        | 25 June      | In-person, London |

| July                                      | Date(s)      | Delivery format   |
|---|--------------|-------------------|
| Practical law: contract law for engineers | 01 July      | Online            |
| Structural health monitoring <b>NEW</b>   | 01 – 02 July | In-person, London |
| Net-zero structural design                | 02 – 03 July | In-person, London |
| Structural engineering with bamboo        | 03 – 04 July | Online            |
| Lateral stability of building structures  | 08 July      | Online            |
| Temporary works design                    | 09 – 10 July | In-person, London |

| September   | Date(s)                   | Delivery format   |
|---|---------------------------|-------------------|
| Financial fundamentals  | 08 September              | In-person, London |
| Eurocode 7: foundation design for small practitioners                       | 11 September              | Online            |
| Eurocode 4: composite design  | 16 September              | In-person, London |
| Digital sketching for engineers   | 17 September – 01 October | Online            |
| Wind loading on structures to EN 1991-1-4                                   | 17 September – 01 October | Online            |
| Reinforced concrete essentials  | 23 September              | Online            |
| Reliability, resilience and robustness in structural engineering design     | 25 September              | Online            |
| Structural fire engineering   | 29 September              | In-person, London |
| Structural engineering appreciation for construction industry professionals | 30 September              | Online            |

| October  | Date(s)                  | Delivery format   |
|--|--------------------------|-------------------|
| Moving into engineering management                         | 01 – 02 October          | In-person, London |
| Steel essentials: practical design of structural steelwork | 06 October               | Online            |
| Practical law: dealing with domestic clients               | 08 October               | In-person, London |
| Demolition and structural refurbishment                    | 09 October               | In-person, London |
| Understanding structural behaviour                         | 15 – 16 October          | In-person, London |
| Eurocode 5: the essentials of timber design                | 20 October               | Online            |
| Timber workshop: design through worked examples            | 21 October               | Online            |
| Deep basement design and construction                      | 23 October               | Online            |
| Conceptual design of bridges                               | 29 – 30 October          | In-person, London |
| Eurocode 3: structural steelwork design                    | 29 October               | Online            |
| Drawing Gym for engineers                                  | 30 October – 20 November | Online            |

| November  | Date(s)                   | Delivery format   |
|---|---------------------------|-------------------|
| Expert Witness: going into court                    | 04 November               | In-person, London |
| Net-zero structural design                          | 05 November – 03 December | Online            |
| Rapid calculations for structural engineers         | 06 November               | Online            |
| Eurocode 2: design of concrete structures           | 11 November               | Online            |
| Ground investigations and outline foundation design | 12 November               | Online            |
| Temporary works design                              | 19 – 20 November          | In-person, London |
| Exam preparation                                    | 24 November – 03 December | Online            |

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## Tailored in-house training solutions

Tailored training to help you achieve individual, team and organisational objectives

**Most of our courses can be delivered on-site or online at a time that suits your team. Choose from the Institution's Professional Development programme or collaborate with us to design a bespoke course tailored to your organisation's unique needs.**

### Benefits of choosing in-house training

- ✓ Cost-effective pricing plus savings on booking fees, travel, and days out of the office
- ✓ Team bonding: learning with colleagues encourages teamwork
- ✓ Tailored content with relevant examples and discussion
- ✓ Delivered on your terms. Choose when and where works best for you.

### Get in touch

Contact [training@istructe.org](mailto:training@istructe.org) and let us know what course or topic you are interested in and when and where you have in mind for delivery.

"We would like to express our sincere appreciation for the in-house course delivered by the IStructE tailored specifically for our needs. The course was exceptionally well organised, instructions and course materials were sent in a timely manner and provided a wealth of valuable information."

Leila Frame, Training and Professional Development Coordinator, Tony Gee and Partners LLP

# Adaptive reuse of existing buildings

Course date:  
📅 11 June

## Aim

This practical course helps structural engineers to confidently approach a refurbishment or reuse project. It looks at the initial steps needed to understand an existing structure, how to apply basic conservation principles and the design implications and considerations.

## Learning outcomes

By the end of the course, you should be able to:

- Identify a range of different materials that may be found in existing buildings
- Demonstrate knowledge of some of the typical defects that might be found in different materials/ages of construction
- Ask the right questions and take practical steps to assess an existing structure's condition and loading capacities
- Address robustness and disproportionate collapse in your designs
- Think holistically about reuse as part of a wider sustainability discussion

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

Contributes to IPD Core Objective 6

## Tutors



**Rachael De'Ath** has more than 20 years of design experience, working for Arup and more recently Marbas as well as 3 years lecturing at the University of Bristol teaching design and has continued her role as a visiting lecturer. She has a broad range of experience but prefers to work on existing buildings where she uses her skills and experience to re-imagine the existing structure into something new. She was named as one of the Women's Engineering Society's 'Top 50 female engineers' in 2018 and is an active member of her local IStructE regional group committee.



**Gavin Knowles** is a lecturer at the University of Bath and prior to this has worked in practice as a Chartered structural engineer. His previous projects including many education and office buildings, along with conservation and refurbishment projects, interweaved with diverse structures, such as rammed chalk-walled houses, recycled material stages at WOMAD Festival and the odd sculpture. He now teaches structural design, conservation and leads on student design projects.

# Advanced conceptual design for design team leaders

Course dates:  
📅 Begins 5 June 09:30 – 11:30 BST

## Aim

Through a series of interactive sessions this course helps experienced practitioners take their conceptual design skills to the next level.

## Sessions

- Models for understanding design
- Delving deeper into the brief and establishing trust with a client
- Idea generation in teams
- Dealing with conflict in design
- Subjective tests and decision-making in design
- The art of selling ideas to our clients

## Learning outcomes

By the end of the course, you should be able to:

- Characterise the design process and describe how each stage requires different skills and attitudes
- Use techniques for understanding the underlying need behind a client brief
- Describe a model for idea generation and use this to lead a design team through the creative process
- Describe strategies for building an effective design team

Contributes to IPD Core Objective 3

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

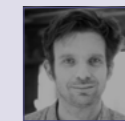
## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Oliver Broadbent** is an Honorary Fellow of the IStructE, recognised for his inspiring work on regenerative design, contributing towards the Institution's goal of making the world a safer and more sustainable place. He is the founder and director of Constructivist, working with leaders, teams, and organisations to enhance their skills in design, creativity, and regenerative thinking. Oliver has also been an 1851 Fellow in Regenerative Design and was awarded the Sir Misha Black Award for Innovation in Design Education in 2020.



The impact of what I have learned on my future practice is massive. It changed my way of thinking and provided me tools to do so.



# Building resilience: protective design and blast engineering for structures

Course date:  
📅 20 March

## Aim

This course demonstrates how significant blast resilience and resistance is possible with careful design, planning and detailing of a structure.

## Learning outcomes

By the end of the course, you should be able to:

- Describe structural responses to blast loading with reference to 'equivalent single degree of freedom' analysis
- Use pressure impulse diagrams for approximate response assessment
- Employ principles and guidelines for protective design against the effects of blast for concrete, steel, masonry and façade elements
- Understand Hostile Vehicle Mitigation
- Apply thoughts on sustainability into blast design

Contributes to IPD Core Objective **3, 4**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutors



**Bob Sheldon** was formerly senior lecturer in protective structures at the Centre for Defence Engineering at Cranfield University. Bob is now an independent consultant for security engineering and protective structures.



**Mariella Gallo** is a structural engineer with expertise in blast effects on buildings, a field she's been specialising in since 2011. She currently leads the Protective Design Team at Arup Resilience Security and Risk in London and is a member of the Register of Security Engineers and Specialists, under the category of protection against the effects of blast.

# Business and strategic planning

Course date:  
📅 4 March 10:00 – 13:00 GMT

## Aim

A business plan offers a dynamic blueprint for operating and expanding a business to achieve goals, financial targets, and operational milestones. This highly practical half-day workshop cultivates the skills required for strategising the medium and long-term growth of an SME.

## Learning outcomes

By the end of the course, you should be able to:

- Construct financial and marketing plans in a practical and time-efficient manner
- Organise your goals into annual, quarterly, and weekly objectives
- Understand the various components of an effective marketing plan
- Recognise the importance of a cash flow forecast and utilise it to make crucial data-driven decisions
- Embrace the mindset shift necessary to prioritise these essential planning skills

Contributes to IPD Core Objective **9, 10**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £245 + VAT |
| Member rate                | £275 + VAT |
| Standard rate              | £365 + VAT |

\*Available until one month prior

## Tutor



**Parag Prasad** has been an award winning business mentor to many of London's elite entrepreneurs including: ProperCorn, the 5th fastest growing company in Europe (Financial Times, 2017); Weston Williamson, one of the leading architecture firms behind TFL's £15Bn Crossrail project, and Chilango, voted one of Britain's 27 most disruptive companies by The Telegraph.



Lots of tools for improving a business and direct approach to identify natural weaknesses of engineers at running businesses.

# Conceptual design for structural engineers: an introduction

## Course dates:

 Begins 27 February 14:00 – 16:00 GMT

 Begins 1 May 09:30 – 11:30 BST

## Aim

Through a series of interactive online sessions supported by individual study, this popular course provides a theoretical framework for understanding conceptual design in the context of structural engineering.

## Sessions

- Working with a brief
- Developing ideas
- Modelling and testing ideas
- Bringing it all together

## Learning outcomes:

By the end of the course, you should be able to:

- Explain the design process as a series of discrete steps
- Describe the characteristics of a good design brief and use this knowledge to write your own brief
- Describe and use techniques for idea generation
- Describe and use techniques for modelling and testing your ideas

Contributes to IPD Core Objective 3

## Intended for:

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Oliver Broadbent** is an Honorary Fellow of the IStructE, recognised for his inspiring work on regenerative design, contributing towards the Institution's goal of making the world a safer and more sustainable place. He is the founder and director of Constructivist, working with leaders, teams, and organisations to enhance their skills in design, creativity, and regenerative thinking. Oliver has also been an 1851 Fellow in Regenerative Design and was awarded the Sir Misha Black Award for Innovation in Design Education in 2020.

# Conceptual design of bridges

## Course dates:

 29 – 30 October

## Aim

This two-day course is an essential introduction to the conceptual design process for bridges. It covers two key areas: selecting a structural form to suit the constraints of a site and arranging materials and components to meet the demands of the structure in an elegant and logical way.

## Learning outcomes:

By the end of the course, you should be able to:

- Identify how the conceptual design of a bridge is informed by physical and environmental site constraints, along with social, cultural and historical factors
- Read a bridge design
- Explain basic structural systems typically used in bridges
- Select appropriate structural forms and materials
- Form, develop and communicate a concept

Contributes to IPD Core Objective 3

## Intended for:

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

## Tutor



**Ian Firth** is a Past President of the Institution of Structural Engineers. He is a world-leading expert in bridge design and construction. During his career, Ian has been involved with the assessment and strengthening of several famous bridges. He is also responsible for the design of many award-winning bridges such as the Swansea Sail Bridge, the Third Way bridge in Taunton and the Destructor Bridge in Bath.



The course is delivered in a really engaging way with teamwork and lecture given interchangeably. What I find the most useful is the break down of the conceptual design process, which sometimes we already do, but not understanding why we do it. This will help for more consistent conceptual design delivery.

# Deep basement design and construction

Course date:  
📅 23 October

## Aim

This course gives guidance on the key design and constructability considerations when planning the construction of deep basements. It covers various types of embedded walls for both bottom-up and top-down construction.

## Learning outcomes

By the end of the course, you should be able to:

- Apply performance criteria to construction techniques and structural form considering the intended use
- Design appropriate waterproofing to achieve the desired environment
- Propose structural form and sequence to match the geotechnical conditions
- Plan construction methodology and sequence, including high level estimating of schedule and costs
- Assess the logistics and space requirements of different equipment considering the construction methodology and ground/groundwater conditions
- Gain awareness of geotechnical risks and structural options
- Design deep basements taking into account of all the above

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

Contributes to IPD Core Objective 3, 4, 7

## Tutors



**Christina Mavrommati** is a Chartered Civil Engineer with over 23 years' experience in the geotechnical design of large-scale civil engineering works in Greece and the UK including High Speed Rail infrastructure, underground metro stations, bridges and earthworks.



**James Eadington** is a Chartered Civil Engineer with over 15 years' experience and a leader in sub-structural analysis, design and construction. He specialises in the design of large underground structures, primarily in the transportation sector. He has made significant contributions to delivering new infrastructure for metro systems in the UK, Qatar, Australia and North America.



**Sivilay Sayavong** has over 15 years' experience in the construction industry and brings with her a wealth of geotechnical design experience and technical problem-solving; particularly in heavy foundation engineering including piles and diaphragm walls.

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# Subsidence

Subsidence can affect many types of structure and cause a range of faults, from minor cracking to total collapse. In 2000, the Institution's *Subsidence of low-rise buildings* (2<sup>nd</sup> edition) was created to provide an all-embracing guide to the subject of subsidence rectification. This new guidance draws on the significant developments of the last 23 years – in areas such as data capture and trending analysis, improvements in diagnostic and investigative methods, and additional rectification processes.



Order now:  
[istructe.org/resources/guidance/subsidence](https://istructe.org/resources/guidance/subsidence)





# Demolition and structural refurbishment

Course date:  
📅 9 October

## Aim

This course provides guidance on specific aspects of demolition and refurbishment from an engineering perspective, while addressing safety, environmental and sustainability influences.

## Learning outcomes

By the end of the course, you should be able to:

- Identify structural construction types and principles
- Evaluate practical options for the demolition or refurbishment of major buildings
- Identify specific structural hazards that may occur in demolition
- Understand temporary structural support methods in demolition and refurbishment
- Gain more knowledge of CDM principles relating them to demolition and refurbishment works
- Enhance environmental and sustainable influences in your decision process

Contributes to IPD Core Objective 7

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Robert Millard** has 24 years construction industry experience both in contracting and consultancy disciplines across many sectors. Most recently the past 8 years have been spent leading an engineering team providing demolition / construction engineering support working across many London demolition, structural refurbishment and new build projects. As a Chartered Engineer and Chair of the Temporary Works Forum, Robert is a strong believer in knowledge sharing for the betterment of our industry.

# Digital sketching for engineers

Course dates:  
📅 Begins 17 September 10:00 – 12:00 BST

## Aim

Developed for engineering offices, this interactive online course provides a comprehensive foundation in digital freehand sketching, for the increasing number of engineers who want to sketch in a digital workflow.

## Learning outcomes

By the end of the course, you should be able to:

- Sketch over imported 3D models including Revit, Rhino, BIM drawings and Google Earth images
- Make quick, professional sketch-overs and annotation to communicate concepts
- Create layouts of multiple sketches to communicate a process (e.g. construction sequence)
- Use the speed of digital tools to create and edit drawings
- Sketch live in online team meetings
- Gain confidence using a tablet and stylus over a mouse

Contributes to IPD Core Objective 2

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Entry criteria

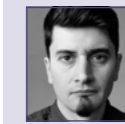
Attendees must have access to Concepts and an Apple (e.g. iPad) or Windows (e.g. Surface Pro) device and stylus.

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Radu Axinte** is an architect who has worked on some of the most iconic architecture projects in London. A highly skilled freehand artist and watercolourist, he combines a passion for sketching with an appetite for digital image-making.



**Trevor Flynn** is the Director of Drawing At Work and founder of The Drawing Gym. He designs and teaches courses at Dyson, Foster and Partners, The Design Museum London, UCL, Bath University and The Architectural Association.

# Drawing Gym for engineers



## Course dates:

Begins 7 May 10:00 – 12:00 BST

Begins 30 October 10:00 – 12:00 GMT

## Aim

The course takes place as a series of two-hour interactive sessions over four weeks supported by independent study. The course introduces a number of drawing techniques and systems. It will increase your confidence in your sketching abilities.

## Learning outcomes

By the end of the course, you should be able to:

- Draw confidently using a repertoire of techniques and drawing systems
- Draw simple geometric forms, building details in isometric, axonometric, section and simple perspectives
- Express a broad range of concepts and forms through drawing
- Draw assuredly from your 'mind's eye'
- Use non-verbal communication professionally

Contributes to IPD Core Objective 3, 4

## Intended for

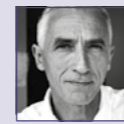
- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Trevor Flynn** is Director of Drawing at Work and founder of The Drawing Gym. He teaches drawing at University College London and runs the architectural and spatial drawing module of the Architectural Association foundation course. Trevor is a visiting lecturer at the School of Architecture at the University of Bath and is a drawing instructor in several architectural and engineering offices.



This is an outstanding course which I would recommend to anyone who loves drawing and is passionate about communicating their projects. It would be of particular use to junior and young engineers still developing their suite of practice skills.

# Efficient structural design concepts



## Course date:

16 June

## Aim

This course introduces simple structural concepts that will enable structural engineers to design more effective, efficient and elegant structures.

## Learning outcomes

By the end of the course, you should be able to:

- Develop an intuitive understanding of structural behaviour and the distribution of internal forces in structures
- Identify how the design of simple structures can be improved
- Translate your understanding of simple structural concepts into efficient design
- Design structures with more direct internal force paths and more uniform distribution of internal forces
- Appreciate innovative engineering solutions for reducing deflections
- Identify solutions to structural problems

Contributes to IPD Core Objective 3

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Dr Tianjian Ji**, FStructE, was Reader in Structural Engineering at the University of Manchester. He developed "Seeing and Touching Structural Concepts" for gaining an intuitive understanding by using simple physical models and appropriate practical examples. He is the author of two books: *Understanding and Using Structural Concepts* and *Structural Design against Deflection*.



The course will enable me to provide more efficient designs based on basic concepts rather than complex computer analysis. Especially important at initial design stage where limited time is available to provide solutions to structural problems.

# Eurocode 2: design of concrete structures

## Course dates:

 18 March

 11 November

## Aim

This course introduces participants to the first generation of Eurocodes, focusing specifically on the design of common structural elements according to Eurocode 2. Participants learn about concrete material properties and understand how to design for durability and fire resistance.

## Learning outcomes

By the end of the course, you should be able to:

- Describe Eurocode 2
- Design concrete for beams, slabs and columns
- Determine cover for a typical element
- Design elements for bending, deflection, shear and axial loads

Contributes to IPD Core Objective **3, 4, 5**

**25% discount on associated publications:**  
See website for details

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

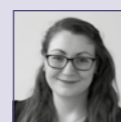
|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutors



**Jenny Burridge** is the Head of Education and Training at The Concrete Centre. She is a Fellow of the IStructE and a Chartered Member of the ICE, with over 30 years of experience in the construction industry. Jenny has previously worked for Arup and AECOM, where she designed award-winning buildings in both the UK and mainland Europe. She chairs the BSI Advisory Committee for Engineering Design and Construction.



**Emily Halliwell** is a Senior Structural Engineer at The Concrete Centre, where she promotes efficient concrete design and construction. Her role includes contributing to the development of Eurocode 2 and providing technical guidance to designers. Prior to joining The Concrete Centre, Emily worked on a variety of challenging engineering projects, including stations, stadia, and commercial buildings. She is a Chartered Member of both ICE and IStructE and a Chartered Environmentalist.

# Eurocode 3: structural steelwork design

## Course dates:

 19 February

 10 April

 29 October

## Aim

This course provides an introduction to structural steelwork design to Eurocode 3 for building design.

## Learning outcomes

By the end of the course, you should be able to:

- Design simple building structures to Eurocode 3
- Navigate effectively around parts of Eurocode 3 necessary for the design of steel structures
- Design tension members, compression members, restrained and unrestrained beams, column base plates and simple joints
- Identify the practical issues in steel buildings design

Contributes to IPD Core Objective **3, 4, 5**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutors



**Prof Dennis Lam** presents the in-person course. He is a Chartered Civil and Structural Engineer and Emeritus Professor of Structural Engineering at the University of Bradford. He has extensive practical experience in structural design and analysis, with particular expertise in steel and composite structures. He is the leading author of *Structural Steelwork: Design to Limit State Theory* and has published widely on structural design and analysis.

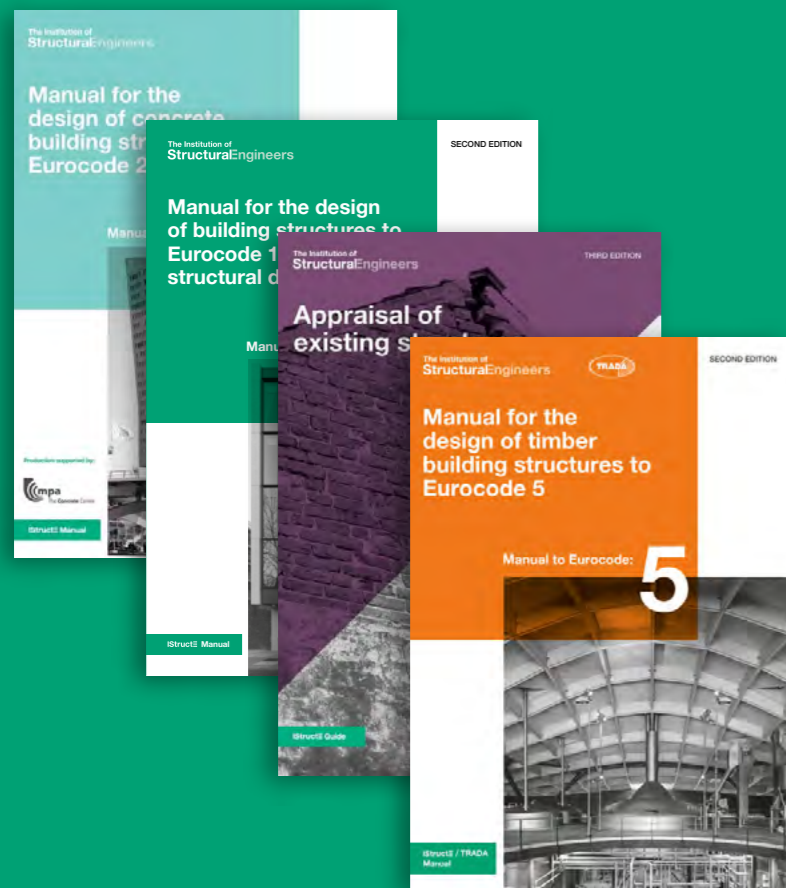


**Bob Benton** presents the online course. He is a Chartered Structural Engineer with experience working for consulting engineers and contractors designing building and civil engineering structures including bridges. He is a visiting lecturer at the University of the West of England teaching post-graduate and mid-career engineers. He has also authored education material for the British Standards Institution.



The practical and live examples made the session interesting and understandable.

**25% off manuals and guides when you attend an associated course**



**Many of our courses have an associated, Institution published manual or guide which can be a valuable supplementary resource.**

Claim your exclusive 25% discount on the associated publication when you attend.

**Email: [library@istructe.org](mailto:library@istructe.org)** for more information or to request a discount code.

# Eurocode 4: composite design

**Course date:**  
📅 **16 September**

## Aim

This course supports practising designers with composite design to Eurocode 4. It enables an understanding of the essential requirements of this code in structural design and how the code operates.

## Learning outcomes

By the end of the course, you should be able to:

- Navigate effectively around parts of Eurocode 4 for the design of steel concrete composite structures
- Understand the basic principles of composite construction
- Design composite slabs and beams with metal deck flooring
- Design composite columns
- Identify the practical issues in composite structures designing to Eurocode 4

Contributes to IPD Core Objective **3, 4, 5**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£295 + VAT</b> |
| <b>Member rate</b>                | <b>£335 + VAT</b> |
| <b>Standard rate</b>              | <b>£445 + VAT</b> |

\*Available until one month prior

## Tutor



**Prof Dennis Lam** is a Chartered Civil and Structural Engineer and Emeritus Professor of Structural Engineering at the University of Bradford. He has extensive practical experience in structural design and analysis, with particular expertise in steel and composite structures. He is the leading author of *Structural Steelwork: Design to Limit State Theory* and has published widely on structural design and analysis.

# Eurocode 5: the essentials of timber design

## Course dates:

 9 June

 20 October

## Aim

This course offers an introduction to timber design to Eurocode 5. Topics covered include solid timber and engineered timber products; material properties and modification factors; design of beams, columns and connections; and discussions on deflections and vibrations.

## Learning outcomes

By the end of the course, you should be able to:

- Recognise the basics of designing timber elements to Eurocode 5
- Assess the intricacies involved in designing timber elements to Eurocode 5
- Appraise the wood technology and scientific research behind certain clauses of Eurocode 5
- Use the peripheral standards and further commercial information to design with Eurocode 5
- Use Eurocode 5 for practical design situations

Contributes to IPD Core Objective 3, 4, 5

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Dr Keerthi Ranasinghe** is an Associate at Milner Associates and was previously the Principal Engineer for Structural Timber at BM TRADA. Formerly an academic with research and teaching experience both in the UK and abroad, Keerthi has delivered timber courses for IStructE since 2008. He is the author of several TRADA publications, including *Span Tables to Eurocode 5*, and the Institution's *Manual for the design of timber building structures to Eurocode 5, 2nd edition*. He sits on British and European Standardisation Committees related to timber design.

# Eurocode 5: connections and advanced topics in timber design

## Course date:

 10 June

## Aim

This course introduces timber connections in detail and several other advanced topics in timber design to Eurocode 5. Topics covered include: connections with dowel-type fasteners, nails, screws, dowels and bolts; timber composites; notched members and slots and holes in timbers; splitting of timber and other brittle failures; design for durability; introductions to the fire and bridges parts of Eurocode 5.

## Learning outcomes

By the end of the course, you should be able to:

- Design basic and more intricate timber connections to Eurocode 5
- Appreciate the fracture mechanics aspects of wood behaviour and scientific research behind certain clauses of Eurocode 5
- Appreciate the use of dowel-type fasteners and contemporary connectors for practical applications
- Use the connections chapter of Eurocode 5 for practical design situations

Contributes to IPD Core Objective 3, 4, 5

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Entry criteria

Participation at the *Eurocode 5: The essentials of timber design* course is recommended.

**25% discount on associated publications:**  
See website for details

## Tutor



**Dr Keerthi Ranasinghe** is an Associate at Milner Associates and was previously the Principal Engineer for Structural Timber at BM TRADA. Formerly an academic with research and teaching experience both in the UK and abroad, Keerthi has delivered timber courses for IStructE since 2008. He is the author of several TRADA publications, including *Span Tables to Eurocode 5*, and the Institution's *Manual for the design of timber building structures to Eurocode 5, 2nd edition*. He sits on British and European Standardisation Committees related to timber design.

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

# Eurocode 6: masonry design

**Course date:**  
Date to be announced. Please check website.

## Aim

This course provides participants with detailed knowledge of masonry design to Eurocode 6 and the National Annexes.

## Learning outcomes

By the end of the course, you should be able to:

- Gain an overview of the design of masonry to the Eurocode
- Understand masonry materials
- Know the standards supporting the use of masonry
- Understand how to design for vertical load
- Complete design examples for vertical load and concentrated load
- Understand how to design for lateral load and complete a design example
- Know where to find relevant information to support their future designs

Contributes to IPD Core Objective **3, 4, 5**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details



I've been using EC6 but wasn't sure I was interpreting it correctly but this course gave me more confidence in using it and understanding the principles behind it.

# Eurocode 7: foundation design for small practitioners

**Course date:**  
📅 11 September

## Aim

This course covers aspects of the geotechnical and structural design of spread and piled foundations. It is tailored for engineers working in small practices. The content is compliant with Eurocodes 2 and 7, with opportunities for comparisons with relevant British Standards.

## Learning outcomes

By the end of the course, you should be able to:

- Develop suitable foundations using ground investigation material
- Prepare scheme designs for spread and piled foundations
- Analyse the practical problems involved in the construction of foundations

Contributes to IPD Core Objective **3, 4**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Bob Benton** is a Chartered Structural Engineer with experience working for consulting engineers and contractors designing building and civil engineering structures including bridges. He is a visiting lecturer at the University of the West of England teaching post-graduate and mid-career engineers. He has also authored education material for the British Standards Institution.

# Eurocode 8: an introduction to seismic design of buildings

Course date:  
📅 25 March

## Aim

This course delivers key advice and guidance on seismic design of structures to Eurocode 8 as well as the application of the Eurocode. Emphasis is placed on reinforced concrete buildings although the concepts are widely applicable.

## Learning outcomes

By the end of the course, you should be able to:

- Describe earthquake damages and identify their causes
- Apply principles of conceptual design of earthquake-resistant structures in practice
- Appreciate ground motions and geotechnical aspects in structural seismic design
- Apply performance requirements and compliance criteria for various types of buildings
- Select models and methods of analysis of buildings for seismic actions
- Carry out equivalent static analysis of simple buildings, safety verifications, and simple structural element design and detail

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Prof Costas Georgopoulos** is a distinguished academic and practising engineer with many years' unique multi-sector experience in seismic design, including conventional buildings in Greece and state-of-the-art structures in the UK (Trident Submarine Refitting Facility at Rosyth and Sizewell B Nuclear Power Station). Costas sits on the BSI B/525/8 committee on EC8 and the IStructE Seismic & Dynamic Events Panel and he is the author of the Extracts to EC8 and Commentary to EC8 for Eurocodes Plus for BSI and, co-author of Examples for the seismic design of steel and concrete buildings to EC8 for IStructE.



Costas has such a wealth of experience and familiarity with the subject, it was honestly incredible. I honestly believe that we could have gone for hours more. The course notes were incredibly considered and informative. Highly recommended.

# Eurocode 8: worked examples of the dynamic analysis and seismic design of buildings

Course date:  
📅 26 March

## Aim

This course delivers practical advice through the use of worked examples on dynamic analysis, conceptual design for earthquake resistance and seismic design of structural elements to Eurocode 8. Emphasis is placed on concrete and steel buildings although the concepts are widely applicable.

## Learning outcomes

By the end of the course, you should be able to

- Understand the dynamic analysis of buildings
- Carry out the dynamic analysis of a 2DOF frame by hand
- Appreciate the principles of conceptual design of earthquake-resistant structures
- Describe the provisions of Eurocode 8
- Apply the performance requirements and compliance criteria of Eurocode 8
- Carry out building element design to Eurocode 8 by hand

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Entry criteria

It is expected that attendees have some experience in dynamic and seismic analysis. Participation at the *Eurocode 8: an introduction to seismic design of buildings* is recommended.

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutors



**Prof Costas Georgopoulos** is a distinguished academic and practising engineer with many years' unique multi-sector experience in seismic design, including conventional buildings in Greece and state-of-the-art structures in the UK (Trident Submarine Refitting Facility at Rosyth and Sizewell B Nuclear Power Station). Costas sits on the BSI B/525/8 committee on EC8 and the IStructE Seismic & Dynamic Events Panel and he is the author of the Extracts to EC8 and Commentary to EC8 for Eurocodes Plus for BSI and, co-author of Examples for the seismic design of steel and concrete buildings to EC8 for IStructE.



**Dr Kong Kian Hau** is a Senior Lecturer with the Department of Civil & Environmental Engineering at the National University of Singapore (NUS). Awarded the NUS President Graduate Fellowship in 2002, his PhD thesis focused on far-field effects of long-distance earthquake tremors from Sumatra to buildings in Singapore. He is a practicing qualified engineer who specialises in Buildings & Infrastructure Projects (including bridges) with more than 15 years of experience. He is co-author of the IStructE's *Examples for the seismic design of steel and concrete buildings to Eurocode 8*.

# Eurocode 9: design of aluminium structures

Course date:  
📅 30 January

## Aim

This one-day online course is designed to help those using structural aluminium. It introduces basic considerations as well as giving guidance on using Eurocode 9. It includes design examples.

## Learning outcomes

By the end of the course, you should be able to:

- List the considerations necessary when deciding to design in structural aluminium rather than in steel
- Determine how to select the most appropriate aluminium alloys for a structural application
- Examine the pros and cons of different material forms and jointing methods
- Perform limit state calculations in accordance with the Eurocode

Contributes to IPD Core Objective 3, 4, 5

## Intended for

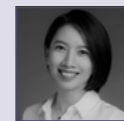
- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Dr Meini Su** is a Senior Lecturer in Structural Engineering at the University of Manchester.

She is a member of the British Standard Institution (BSI) B/525/9 – Structural use of aluminium committee. She studied at The University of Hong Kong and Imperial College London. Her principal research interests lie in the areas of structural testing, numerical modelling and the development of design guidance for aluminium alloy structures and reinforced concrete structures in marine environments.



Very knowledgeable course leader delivering a well-structured and comprehensive course with examples helping in the application of the material covered.

# The Institution of StructuralEngineers

## Manuals supporting the design of structures to Eurocodes



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for practicing structural engineers

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Learn how to identify, assess, manage and remediate reinforced autoclaved aerated concrete (RAAC) defects in buildings.

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## Course outline

- **Module 1:** History, design standards and defects of RAAC
- **Module 2:** Surveys and investigations, assessment, reporting, health and safety, report writing
- **Module 3:** Remediation, monitoring, and risk mitigation

# Exam Preparation on-demand course

The Chartered Member exam is recognised globally as a rigorous assessment of competence for structural engineers. As a gateway to the profession, the exam is necessarily challenging and whilst we want to maintain the highest of standards, we also want to provide support and encouragement for Graduate Members to develop in a career that will last them a lifetime.

The online Chartered Member preparation course provides an accessible and flexible way to get ready for the exam.

## By the end of the course, you should be able to:

- Identify the passing criteria for each element of the Examination
- Plan an effective preparation strategy that addresses any gap in your preparation for the Examination
- Confidently formulate distinct and viable solutions to the Examination questions that demonstrate your professional competence
- Implement a plan to effectively manage your time throughout the Examination



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# Exam preparation

## Course dates:

12 – 14 May

Begins 24 November, 6 sessions, 09:30 – 13:00 GMT

## Aim

This comprehensive course is designed to prepare you for the IStructE's Chartered Membership exam; enabling you to plan your future preparation and approach the exam with confidence.

## Learning outcomes

By the end of the course, you should be able to:

- Plan your own preparation for the exam
- Understand how to assess the key issues raised in any exam question
- Recognise what is required to pass each element of the exam
- Formulate distinct and viable solutions to exam questions
- Employ tools to develop efficient solutions to exam questions

## Pre-course requirements

Please note that this course requires some pre-course work to be completed in preparation for the course dates.

Contributes to all IPD Core Objectives

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £615 + VAT |
| Member rate                | £675 + VAT |

\*Available until one month prior

## Tutors



**Paul Toplis** is a consultant at Price & Myers consulting engineers with over 30 years' experience of designing buildings. He is personally involved in producing sketch drawings, calculations and specifications for projects – bringing 'hands on' experience to the course. He is also technical editor for the National Structural Concrete Specification.

**Victoria Edmondson** is a Chartered Structural Engineer with over 15 years experience in the UK and abroad. She is passionate about coaching the next generation of structural engineers.

**Matt Goswell** has worked for a number of London-based structural consultants on projects such as the Oval cricket ground, KPMG Canary Wharf and The Shard. To broaden his horizons, Matt moved into the energy sector, predominately working as a lead engineer on onshore facilities across the world.

All the tutors have been marking examiners for The Institution of Structural Engineers Chartered Membership Exam.

# Expert Witness: an introduction

## Course dates:

 27 – 30 May 09:30 – 13:00 BST

## Aim

This course, delivered as four half day sessions, provides a comprehensive introduction to the roles and responsibilities of an Expert Witness. The practical training also focuses on the preparation and presentation of the Expert Witness' report and the essential skills for courtroom readiness.

## Learning outcomes

By the end of the course you should be able to:

- Comprehend the requirements for performing as an Expert Witness
- Articulate terms of engagement
- Outline the necessary knowledge and actions prior to report writing
- Dealing with witness statements
- Analyse strategies for fact-finding, early evaluation, and pre-trial advice
- Interpret and apply codes of practice for Experts
- Navigate procedures and anticipate challenges in Expert meetings
- Implement effective methods for securing payment

Contributes to IPD Core Objective 2, 10

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £575 + VAT |
| Member rate                | £635 + VAT |
| Standard rate              | £855 + VAT |

\*Available until one month prior

## Tutor

The Academy of Experts is the professional society and accrediting body for Expert Witnesses of all disciplines. It is independently run by Experts for Experts and those using them. The training is conducted by a team of experienced tutors. Although their disciplines are all very different, they all have practical experience of working as Expert Witnesses and mediators or instructing them.



The content of the Expert Witness course and its presentation by an accomplished and experienced Expert Witness is a must for any engineer venturing into the world of court work.

IN COLLABORATION WITH



The Institution of  
**StructuralEngineers**

THE  
ACADEMY  
OF  
EXPERTS

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[www.istructe.org/expert-witness-register](http://www.istructe.org/expert-witness-register)

# Expert Witness: going into court

Course date:  
4 November

## Aim

This course is designed to provide participants with the knowledge and experience of courtroom proceedings. Participants undergo cross-examination by a practising barrister in a protected environment to improve techniques and increase confidence when called to give evidence.

## Learning outcomes

By the end of the course you should be able to:

- Plan and schedule court preparation effectively
- Introduce yourself and present your expertise confidently
- Demonstrate effective techniques for giving evidence
- Analyse lawyers' strategies for cross-examination and employ appropriate responses

Contributes to IPD Core Objective 2, 10

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £325 + VAT |
| Member rate                | £365 + VAT |
| Standard rate              | £485 + VAT |

\*Available until one month prior

## Tutor

The Academy of Experts is the professional society and accrediting body for Expert Witnesses of all disciplines. It is independently run by Experts for Experts and those using them. The training is conducted by a team of experienced tutors. Although their disciplines are all very different, they all have practical experience of working as Expert Witnesses and mediators or instructing them.

IN COLLABORATION WITH



# Financial fundamentals

Course date:  
8 September

## Aim

This course provides an overview of accounting principles and an explanation of accounting terminology. It also covers how to understand key financial documents.

## Learning outcomes

By the end of the course, you should be able to:

- Recognise how the three key financial documents (cash flow forecast, profit and loss account, and balance sheet) are constructed
- Explain some key financial ratios that inform the health of a business
- Interpret financial data to set forward plans
- Use key financial terminology
- Identify what financial data is available in the public domain
- Work confidently alongside your financial colleagues

Contributes to IPD Core Objective 10

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £325 + VAT |
| Member rate                | £365 + VAT |
| Standard rate              | £485 + VAT |

\*Available until one month prior

## Tutor



Penny Taylor has combined an engineering career in the automotive industry and academia with postgraduate qualifications in teaching, coaching and psychology. She has been teaching Finance and Management to engineers for over 10 years, based on practical lessons learned during her engineering career.



Penny was very knowledgeable and was able to explain all items extremely well using examples personal to the attendees. Using our accounts was really useful to apply this to the real world.

# Floor vibration design and mitigation

Course date:  
📅 25 June

## Aim

This course introduces key concepts in vibration serviceability of building floors. Techniques for analysis, design and mitigation for satisfactory vibration performance are outlined, as well as their potential impact on sustainability of floor construction.

## Learning outcomes

By the end of the course, you should be able to:

- Master the basic terminology used in floor vibration serviceability
- Undertake basic vibration serviceability checks of a typical floor structure
- Appreciate the vibration mitigation technologies available to reduce embodied carbon pertinent to floor vibration serviceability
- Carry out basic vibration serviceability checks for a floor featuring an active mass damper

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutors



**Prof Aleksandar Pavic** is Professor of Vibration Engineering at the University of Exeter, with expertise in vibration serviceability of building floors. He has contributed to a number of vibration design guides currently used in the UK and internationally for floors, footbridges and grandstands. He is also Managing Director of Full Scale Dynamics Ltd.



**Dr Paul Reynolds** is an expert in civil engineering vibration with specialism in structural vibration control. He is CEO of FSD Active Ltd and was previously Professor of Structural Dynamics and Control at the Universities of Sheffield and Exeter.

IN COLLABORATION WITH



# Ground investigation and outline foundation design

Course date:  
📅 12 November

## Aim

This half-day course is designed to help early career structural engineers develop a better understanding of geotechnical engineering and use that knowledge to enhance and promote sustainable design. The course encourages effective collaboration with geotechnical engineers by explaining how below ground risks are identified and investigated, leading on to an overview of shallow and piled foundation design.

## Learning outcomes

By the end of the course, you should be able to:

- Understand the contents and importance of a desktop study and identify potential below-ground risks to structures and substructures
- Explain types of ground investigation and how to procure and specify them
- Identify typical foundation solutions for scheme design
- Appreciate worked examples for shallow and piled foundations
- Communicate effectively with geotechnical engineers

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £215 + VAT |
| Member rate                | £245 + VAT |
| Standard rate              | £325 + VAT |

\*Available until one month prior

## Tutor



**Elizabeth Brown** is a Partner at CampbellReith and leads their ground engineering group. She is chartered with the Geological Society of London and has over 30 years' experience in the field of geotechnical engineering. Her knowledge covers site investigation, ground risk management, foundations, basements and retaining walls and ground movement assessments, having worked on a variety of small to large scale regeneration, commercial, residential, healthcare, education and infrastructure projects across the UK.

# Historic timber structures: assessment and reuse

**Course dates:**  
 **10 February**  
 **2 June**

## Aim

This course introduces timber as an engineering material, with a focus on its use in historic structures. It covers non-destructive techniques for condition assessment, and strategies for the reuse of heritage structures.

## Learning outcomes

By the end of the course, you should be able to:

- Recognise timber as an engineering material and explain the inherent strengths and weaknesses of this organic and 'living' material
- Identify the cellular structure of timber in relation to softwoods and hardwoods
- Appreciate the timber grading rules to softwoods and hardwoods, and employ the rules and strategies in assigning strength classes to timber used in existing structures
- List the non-destructive testing techniques available in assessing timber used in historic structures
- Distinguish the simple structural forms of constructions used in historic structures

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£295 + VAT</b> |
| <b>Member rate</b>                | <b>£335 + VAT</b> |
| <b>Standard rate</b>              | <b>£445 + VAT</b> |

*\*Available until one month prior*

**25% discount on associated publications:**  
**See website for details**

Contributes to IPD Core Objective **5**

# Influencing and leadership skills

**Course dates:**  
 **Begins 6 May 09:30 – 12:30 BST**

## Aim

Develop your ability to effectively communicate with, lead and influence the people you work with. This practical course is delivered as workshops across five weeks. The course will develop your self-awareness, helping you to communicate your expertise, have influence and engage confidently with colleagues and stakeholders.

## Learning outcomes

By the end of the course, you should be able to:

- Improve your working relationships and your influence on others
- Improve your impact on teams and individuals
- Gain and maintain trust
- Empower colleagues and those you manage
- Communicate effectively with clients and project stakeholders
- Negotiate and agree goals and expectations

Contributes to IPD Core Objective **2, 9**

## Intended for

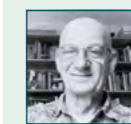
- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£665 + VAT</b> |
| <b>Member rate</b>                | <b>£735 + VAT</b> |
| <b>Standard rate</b>              | <b>£985 + VAT</b> |

*\*Available until one month prior*

## Tutor



**Nick Zienau** has worked as a consultant facilitating organisational change, training leaders and coaching executives in communication and relationships for the past 25 years – working in the UK and many countries in mainland Europe. His passion is for work with socially engaged leaders and organisations. That often takes him back into education, in work with NGOs and other not-for-profit organisations, and with enterprises who take their social impact seriously.



Nick is an excellent coach, and the sessions were extremely useful for developing soft skills, including self-awareness and effective communication. I learned how to communicate more effectively, including the appropriate tone to use and how to approach various situations. Highly recommended!

# Lateral stability of building structures

## Course dates:

 **20 February 14:00 – 18:00 GMT**

 **8 July 14:00 – 18:00 BST**

## Aim

This half-day course covers the methods by which the lateral stability of a building structure is achieved.

## Learning outcomes

By the end of the course, you should be able to:

- Describe the methods of achieving lateral stability in buildings
- Recognise how robustness impacts on lateral stability
- Identify second order effects on building structure frames
- Illustrate development and projection of load paths in frames
- Identify and exploit vertical and horizontal stability systems

Contributes to IPD Core Objective **3, 4**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£215 + VAT</b> |
| <b>Member rate</b>                | <b>£245 + VAT</b> |
| <b>Standard rate</b>              | <b>£325 + VAT</b> |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Chris O'Regan** is a Chartered Structural Engineer with over 35 years of experience

working in the field. He draws from his experience developing structures for a large variety of buildings, ranging from music hall venues through to stadia and everything in between. Chris is keen to share the knowledge on the topic of lateral stability that he has accrued over the years to ensure it is transferred to other practicing structural engineers. He is the author of the Technical Guidance Notes that were published in *The Structural Engineer*.



An insightful introduction into lateral stability in building structures and the course was clear, concise and engaging throughout.

# Moving into engineering management

## Course dates:

 **1 – 2 October**

## Aim

Discover how to be successful in your management career. This interactive two-day course gives first-time managers a toolbox of techniques to use for managing engineers and other technical staff.

## Learning outcomes

By the end of the course, you should be able to:

- Manage effectively
- Build and develop an effective team
- Delegate appropriately and effectively
- Set, monitor and achieve SMART goals for your team
- Use performance management to get the best out of everyone
- Understand what is expected of you as a Manager or Team Leader
- Know the difference between leadership and management, and how to be good at both
- Create a high-performing and happy team

Contributes to IPD Core Objective **9**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£575 + VAT</b> |
| <b>Member rate</b>                | <b>£635 + VAT</b> |
| <b>Standard rate</b>              | <b>£855 + VAT</b> |

\*Available until one month prior

## Tutor



**Penny Taylor** has combined an engineering career in the automotive industry and academia with postgraduate qualifications in teaching, coaching and psychology. She has been teaching Finance and Management to engineers for over 10 years, based on practical lessons learned during her engineering career.



Penny was very engaging and the content relevant and easy to follow at a good pace. Good amount of team exercises.

# Net-zero structural design

## Course dates:

 Begins 27 February 09:30 – 11:30 GMT

 2 – 3 July 09:30 – 16:30 BST

 Begins 5 November 14:00 – 16:00 GMT

## Aim

This popular course offers a series of interactive sessions, supported by individual study. It is designed to empower participants with the skills and knowledge needed to design structures that achieve net-zero emissions.

## Sessions

- The big picture
- Materials
- The brief
- Design options
- Advocacy

## Learning outcomes

By the end of the course, you should be able to:

- Share insights on the definition and strategies for achieving net-zero
- Discover opportunities to reduce carbon emissions in design by redefining project briefs
- Select materials that are advantageous for the entire industry rather than only your project
- Quickly identify low-carbon solutions that satisfy the client's desired outcomes
- Synthesise holistic design approaches that encompass low-carbon solutions beyond structural components

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Entry criteria

Must have completed the *Embodied Carbon Basics* on-demand course.

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

## Tutors



**Will Arnold** is Head of Climate Action at the IStructE and a Chartered Environmentalist

specialising in the decarbonisation of the built environment. He spearheads the Institution's climate emergency response, integrating this focus into all aspects of the organisation's work, including the development of best-practice emergency guidance. Before his current role, Will worked as a structural engineer at Arup for over ten years. He is also a member of the Structural Awards Judging Panel and serves on the Editorial Advisory Group for *The Structural Engineer*.



**Oliver Broadbent** is an Honorary Fellow of the IStructE, recognised for his inspiring work on regenerative design, contributing towards the Institution's goal of making the world a safer and more sustainable place. He is the founder and director of Constructivist,

working with leaders, teams, and organisations to enhance their skills in design, creativity, and regenerative thinking. Oliver has also been an 1851 Fellow in Regenerative Design and was awarded the Sir Misha Black Award for Innovation in Design Education in 2020.

The Institution of  
**StructuralEngineers**

# Climate emergency (four-volume package)

Essential titles from the Institution to assist built environment professionals in tackling the climate emergency.

## Comprising of:

- Design for zero
- How to calculate embodied carbon (2nd edition)
- Circular economy and reuse: guidance for designers
- The regenerative structural engineer



**Buy now:**

[istructe.org/resources/guidance/climate-emergency-package](https://istructe.org/resources/guidance/climate-emergency-package)

Contributes to IPD Core Objective 3, 4, 5, 6

# Practical law: client appointments and terms of engagement

Course date:  
📅 8 April

## Aim

This masterclass centres on analysing intricate commercial contracts generated by clients. It aims to empower engineers to scrutinise commercial issues, assess potential implications and risks, and adeptly devise innovative negotiating strategies. Collaborative activities apply genuine client contracts to craft pragmatic solutions.

## Learning outcomes

By the end of the course, you should be able to:

- Analyse and interpret key issues recurring in client-led appointments
- Evaluate and avoid clauses concerning strict liability, fitness for purpose, and unfair warranty obligations
- Assess and formulate responses to attempts aiming to transfer risk for variations, delays, and unforeseen events from client to engineer
- Recognise the implications of assignment, staff naming, coordination duties, and third-party design responsibilities
- Appraise and negotiate in reaction to exclusion and limitation clauses
- Critically examine conditions precedent and their impact on the profit margin

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £325 + VAT |
| Member rate                | £365 + VAT |
| Standard rate              | £485 + VAT |

\*Available until one month prior

Contributes to IPD Core Objective 10

## Tutor



**Rob Langley** took an MA in Law, then qualified both as a Barrister and as a Solicitor, and has 40 years' experience of engineering and construction law. Before specialising in training and consultancy, he was a law firm partner practicing in this expert field. He has been retained by numerous professional indemnity insurers and has represented and defended hundreds of engineers and other design professionals. A Fellow of the Chartered Institute of Arbitrators, Rob is a busy Construction Adjudicator, and a CMC-registered Civil Mediator.



Rob is clearly very knowledgeable and experienced. The review of contracts sent in I found particularly useful.

IN COLLABORATION

**RL.**

ROB LANGLEY MEDIATION

# Practical law: contract law for engineers

Course date:  
📅 1 July

## Aim

This popular one-day course aims to provide participants with a practical understanding of essential aspects of contractual relationships. It simplifies complex language, elucidates key concepts, and equips attendees with the knowledge needed to navigate engineering and construction contracts effectively, thereby avoiding common pitfalls.

## Learning outcomes

By the end of the course, you should be able to:

- Analyse the various methods through which contracts are established and the responsibilities they entail
- Decipher legal terminology and grasp technical terms related to contractual and professional responsibilities
- Evaluate critical negotiation points to prioritize during discussions
- Utilise contracts effectively throughout the life-cycle of your projects to optimize progress and mitigate risks

Contributes to IPD Core Objective 10

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £325 + VAT |
| Member rate                | £365 + VAT |
| Standard rate              | £485 + VAT |

\*Available until one month prior

## Tutor



**Rob Langley** took an MA in Law, then qualified both as a Barrister and as a Solicitor, and has 40 years' experience of engineering and construction law. Before specialising in training and consultancy, he was a law firm partner practicing in this expert field. He has been retained by numerous professional indemnity insurers and has represented and defended hundreds of engineers and other design professionals. A Fellow of the Chartered Institute of Arbitrators, Rob is a busy Construction Adjudicator, and a CMC-registered Civil Mediator.



The course was exactly what I wanted. All of the aspect raised by our P.I. insurers when asked to comment on contracts or the occasional warranty were included, together with a reminder of why we have certain clauses in our terms of agreement. Additionally and perhaps more importantly were the reminders of potential pitfalls.



# Practical law: dealing with domestic clients

## Course dates:

 18 February 13:00 – 17:30 GMT

 8 October 13:00 – 17:30 BST

## Aim

This half-day course is tailored for engineers operating within the domestic and small commercial sectors. It aims to equip participants with a comprehensive understanding of specific contractual and legal challenges they may encounter. Additionally, it highlights common legal pitfalls that can be mitigated through proper awareness and understanding.

## Learning outcomes

By the end of the course, you should be able to:

- Negotiate and document clear, enforceable agreements with non-professional clients
- Understand the context of consumer protection regulations
- Identify and prevent misunderstandings related to fees, project variations, delays, and respective responsibilities of both parties and contractors
- Handle complaints appropriately and professionally
- Enhance your communication skills to facilitate smoother payment processes

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £245 + VAT |
| Member rate                | £275 + VAT |
| Standard rate              | £365 + VAT |

\*Available until one month prior

Contributes to IPD Core Objective 1, 2, 10

## Tutor



**Rob Langley** took an MA in Law, then qualified both as a Barrister and as a Solicitor, and has 40 years' experience of engineering and construction law. Before specialising in training and consultancy, he was a law firm partner practicing in this expert field. He has been retained by numerous professional indemnity insurers and has represented and defended hundreds of engineers and other design professionals. A Fellow of the Chartered Institute of Arbitrators, Rob is a busy Construction Adjudicator, and a CMC-registered Civil Mediator.



I found it extremely helpful. I received more out of this than any other seminar I have done with the Institution, as it was good to know what I was doing right and what I was doing wrong.

IN COLLABORATION

**RL.**

ROB LANGLEY MEDIATION

# Rapid calculations for structural engineers

## Course dates:

 4 April 10:00 – 13:30 BST

 6 November 10:00 – 13:30 GMT

## Aim

This half-day online course provides a theoretical framework for rapid problem-solving concept calculations. Applying this to practical exercises, attendees will learn how to undertake rapid calculations for different structural members using a small scheme as an example and considering deflection, limit and materials.

## Learning outcomes

By the end of the course, you should be able to

- Understand the difference between rapid concept calculations and detailed design calculations
- Employ a useful framework for rapid calculations using typical structural design problems
- Use your own experience to inform your rapid design calculations
- Consider the types of questions to ask and have the confidence to answer others quickly

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £215 + VAT |
| Member rate                | £245 + VAT |
| Standard rate              | £325 + VAT |

\*Available until one month prior

## Tutor



**Rachael De'Ath** has more than 20 years of design experience working for Arup and more recently Marbas as well as 3 years lecturing at the University of Bristol teaching design and has continued her role as a visiting lecturer. She has a broad range of experience but prefers to work on existing buildings where she uses her skills and experience to re-imagine the existing structure into something new. She was named as one of the Women's Engineering Society's 'Top 50 female engineers' in 2018 and is an active member of her local IStructE regional group committee.



Rachael De'Ath hosted brilliantly. It was really well paced and engaging, with good examples of when we can use these tricks. I feel like it will be very helpful for the Structures Exam, as well as general use.

# Reinforced concrete essentials

Course date:  
📅 23 September

## Aim

This course establishes good practice in the design of reinforced concrete structures. Through practical exercises it covers concept, design, flat slabs and finite element analysis.

## Learning outcomes

By the end of the course, you should be able to

- Carry out preliminary sizing of reinforced concrete elements
- Design simple elements to Eurocode 2
- Use simple design software and have an appreciation of finite element analysis
- Understand modern concreting methods

Contributes to IPD Core Objective **3, 4, 6**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Jenny Burridge** is the Head of Education and Training at The Concrete Centre. She is a Fellow of the IStructE and a Chartered Member of the ICE, with over 30 years of experience in the construction industry. Jenny has previously worked for Arup and AECOM, where she designed award-winning buildings in both the UK and mainland Europe. She chairs the BSI Advisory Committee for Engineering Design and Construction.

# Reliability, resilience and robustness in structural engineering design

Course date:  
📅 25 September

## Aim

This interactive online course shares current state-of-the-art frameworks for the adoption of resilience-based design in professional practice, demonstrating advantages compared to a traditional prescriptive design and providing examples of how they benefit the client.

## Learning outcomes

By the end of the course, you should be able to:

- Differentiate between reliability, risk and resilience when quantifying structural performance
- Appreciate the role of robustness and resilience in the design of structures
- Understand the role of aleatory and epistemic uncertainties in the design of structures
- Decide which design situations are best suited for the adoption of performance-based approaches, and justify their use in practice
- Break down the application of performance-based design into sequential stages; from assessing the relevant hazards to estimating the resulting losses
- Recommend a range of structural and non-structural solutions to enhance resilience and robustness

Contributes to IPD Core Objective **3, 4**

## Intended for

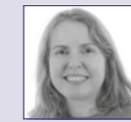
- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

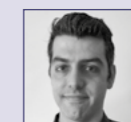
|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutors



**Prof Caroline Field** is a Partner at PA Consulting and leads their resilience business. Caroline has a background in asset and infrastructure resilience with over 26 years of professional experience including 12 years in counter terrorism, blast mitigation and physical security and 7 years in earthquake engineering and dynamics.



**Dr Andre Jesus** is a Chartered Structural Engineer (Portugal) and a lecturer in structural engineering at Loughborough University, UK. Andre has research expertise in structural dynamics, including structural health monitoring of bridges and timber buildings, human-structure interaction effects with application for modal testing, and modelling of railway infrastructure under high-speed trains passage.

# Seismic design of structures

**Course dates:**  
📅 28 – 29 May

## Aim

This course introduces seismic design of civil engineering structures. It builds on the basics of structural dynamics and engineering seismology. The course focus is on seismic loading and design codes, conceptual seismic design principles and analysis for seismic loading, and design and detailing of structural members.

## Learning outcomes

By the end of the course, you should be able to:

- Identify situations where earthquake loading must be included in the design of structures and how to define this loading
- Understand the basic principles of seismic design and select appropriate performance requirements for structures subjected to earthquake loads
- Select an appropriate structural configuration for a building situated in a seismic zone
- Analyse a building for seismic loading
- Design and detail reinforced concrete structures
- Appreciate seismic design and detailing of steel and steel-concrete composite structures and highway bridges

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£515 + VAT</b> |
| <b>Member rate</b>                | <b>£575 + VAT</b> |
| <b>Standard rate</b>              | <b>£765 + VAT</b> |

*\*Available until one month prior*

**25% discount on associated publications:**  
**See website for details**

Contributes to IPD Core Objective **3, 4**

# Steel essentials: practical design of structural steelwork

**Course date:**  
📅 6 October

## Aim

This course presents practical guidance on key aspects of preliminary scheme development and detailed scheme design in structural steelwork.

## Learning outcomes

By the end of the course, you should be able to:

- Compare steel construction options available at preliminary scheme development and determine the optimum design solution
- Apply a simple methodology for preliminary sizing of members to enable budget costing to be developed
- Judge the significance of steel grade and subgrade for structural steelwork and their suitability for specification
- Understand the responsibilities for different parties under UKCA Marking
- Describe key aspects of robustness and corrosion protection
- Design for fire and assess the benefits of critical temperature calculation for fire protection
- Identify resources available to assist with the use of structural steelwork in construction

Contributes to IPD Core Objective **3, 4, 5**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£295 + VAT</b> |
| <b>Member rate</b>                | <b>£335 + VAT</b> |
| <b>Standard rate</b>              | <b>£445 + VAT</b> |

*\*Available until one month prior*

**25% discount on associated publications:**  
**See website for details**

## Tutor



**Richard Dixon** is a Chartered Engineer who has worked in the steel industry for 25 years.

Before partnering with Steel for Life, he worked for British Steel/Corus/Tata Steel in various roles. He led the Structural Advisory Service at Tata Steel in the joint venture with the BCSA to promote efficient design in structural steelwork to the UK construction industry.

## Tutors



**Agathoklis Giaralis** is Associate Professor at Khalifa University, Abu Dhabi, leading the S3I research group on Smart Sustainable Structures and Energy Infrastructure, and Visiting Professor at City, University of London (CUoL). His research is primarily in structural dynamics with emphasis on wind and earthquake engineering applications focusing on probabilistic analysis methods and on vibration control and monitoring for high-performing structures.



**Dr Miguel Bravo-Haro** is a Lecturer in Sustainable and Structural Engineering in the department of Civil Engineering at CUoL. His areas of research span from earthquake and seismological engineering, digital infrastructure and condition monitoring to data-driven and structural health monitoring.



**Dr Panagiotis Mergos** is Senior Lecturer in Structural Engineering and the Programme Director of the MSc in Civil Engineering Structures at CUoL. He has worked for 18 years in seismic design and assessment of structures as a researcher and as a consultant and he is panel member of the UK Mirror Group MG2 developing the next integration of Eurocode 8, Part 1.

# Structural engineering appreciation for construction industry professionals

**Course date:**  
📅 30 September

## Aim

A guide to the field of structural engineering for the integrated design of building structures.

## Learning outcomes

By the end of the course, you should be able to:

- Appreciate how forces due to gravity and other effects are resisted in a building's structure
- Demonstrate a knowledge of the tools available to the structural engineer to counter these effects
- Appreciate the concept of efficient design and its impact on embodied energy
- Appreciate finite element analysis methods
- Develop an appreciation of key engineering concepts and terminology

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£295 + VAT</b> |
| <b>Member rate</b>                | <b>£335 + VAT</b> |
| <b>Standard rate</b>              | <b>£445 + VAT</b> |

\*Available until one month prior

## Tutor



**Chris O'Regan** has been working in the field of structural engineering for over 35 years and draws from his experience from developing structures for a large variety of buildings ranging from music halls through to stadia and everything in between. Chris created this course to highlight the need for greater integration in the design of buildings in the wake of Building Safety Act 2022. Chris has been actively involved with advising construction professionals on the impact the Building Safety Act will have in how it will impact the method of design of buildings.

# Structural engineering with bamboo

**Course dates:**  
📅 3 – 4 July 10:00 – 13:30 BST

## Aim

This course equips attendees with practical knowledge about structural design with bamboo stems (culms). The course considers aspects of concept design, detailed design and durability by design.

## Learning outcomes

By the end of the course, you should be able to:

- Describe the structural characteristics of bamboo culms
- List and interpret the advantages and limitations of using bamboo culms as a structural product
- Identify where and how bamboo culms may be used appropriately within a building structure
- Determine the capacity of bamboo culms and their connections through basic calculations
- Examine the state-of-the-art of structural design with engineered bamboo

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

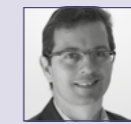
## Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£295 + VAT</b> |
| <b>Member rate</b>                | <b>£335 + VAT</b> |
| <b>Standard rate</b>              | <b>£445 + VAT</b> |

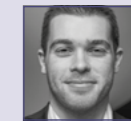
\*Available until one month prior

Contributes to IPD Core Objective **3, 4, 5, 6**

## Tutors



**David Trujillo** has been researching bamboo for over 23 years and has authored or co-authored more than 30 publications on the subject, including technical papers on bamboo in *The Structural Engineer*. He is a member of the committee that drafted four ISO standards for bamboo (some of which are now British Standards).



**Seb Kaminski** is an Associate Structural Engineer in Arup's Specialist Technology Analytics & Research Team and a specialist in the use of bamboo, especially for housing in seismic areas. He has co-authored technical papers on bamboo in *The Structural Engineer* and was also involved in the revision of ISO 22156 (Structural Design of Bamboo).

# The regenerative structural engineer

**How to design for the climate & biodiversity emergency: thought leadership from the Institution of Structural Engineers.**

'Sustainable design' asks; How we can design while aiming to do no harm? Unfortunately, when we don't reach that aim, we end up doing harm. 'Regenerative design' asks a different question; How can we design in a way that increases biodiversity, reduces carbon and leads to flourishing communities? In short how can we design so that people (and the ecosystems that support them) thrive?



**Order now:**

[istructe.org/resources/guidance/the-regenerative-structural-engineer](https://istructe.org/resources/guidance/the-regenerative-structural-engineer)

## Structural fire engineering

**Course date:**

 **29 September**

### Aim

This course is designed to provide structural engineers with a greater understanding of fire safety, key legislation, and the principles of risk analysis in order to ensure that adequate structural performance in fire is achieved. You will examine case studies of structural and non-structural failures as a result of fire.

### Learning outcomes

By the end of the course, you should be able to:

- Recognise the characteristics of fires in buildings and understand the effect on structural materials, elements and whole structures
- Understand the principles of relevant UK fire safety legislation and the responsibilities of structural engineers
- Classify potential hazards
- Appreciate various techniques for modelling both fires and the structural behaviour when exposed to such fires

Contributes to IPD Core Objective **3, 4, 8**

### Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

### Price

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Early booking member rate*</b> | <b>£295 + VAT</b> |
| <b>Member rate</b>                | <b>£335 + VAT</b> |
| <b>Standard rate</b>              | <b>£445 + VAT</b> |

\*Available until one month prior


### Tutors

**Ian Burgess** and **Roger Plank** started their research on structural fire engineering in 1985 at the University of Sheffield, simulating the behaviour of isolated steel elements in furnace tests. Their numerical approaches developed rapidly and they played a key role in the Cardington fire test programme, leading to the development of the award-winning software Vulcan. This has been used extensively on real design projects for modelling the 3-dimensional behaviour of steel-framed, composite and concrete structures in fire, including tensile membrane action. They have also studied the robustness of frames, conducting unique high-temperature experimental work at Sheffield on connection component behaviour and on model-scale testing of concrete slabs.

Their research was recognised through a major award from the ASCE, and their Vulcan software won two national prizes in 2005 from the British Computer Society. Their research group generated 35 PhD graduates, and the research work is now being taken further by their successors at the University of Sheffield.

# Structural health monitoring

## Course dates:

 1 – 2 July

## Aim

The course will provide a practical introduction to data acquisition for structural condition monitoring and for use in live asset management projects.

Attendees will learn using contextualised examples the basic principles of data acquisition and instrumentation, signal processing and interpretation techniques. The course include practical hands-on exercises, requiring attendees to first acquire data, and then complete analysis and interpretation using programming tools.

## Learning outcomes

By the end of the course, you should be able to:

- Gather data using acoustic techniques and ground penetrating radar
- Appreciate how to interpret data using programming tools
- Monitor the quality of existing concrete structures and understand deterioration
- Assess how well a concrete structure has been built

Contributes to IPD Core Objective 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

## Tutors

**Victoria Edmondson** is a Chartered Structural Engineer with over 15 years experience in the UK and abroad. She is passionate about coaching the next generation of structural engineers.



**Prof James Martin** is a geophysicist with extensive research experience, particularly in physical and chemical measurement systems, signal fidelity and its impact on subsequent data interpretation. He has extensive signal processing and data analysis expertise, including the development and characterisation of fibre optic sensor measurement systems.

# Structural robustness and disproportionate collapse

## Course date:

 8 May

## Aim

This course equips practising engineers to undertake the full structural design of a building, including designing a robust building to avoid disproportionate collapse. The course covers designing buildings of Class 1–2B and alterations/change of use of existing buildings.

## Learning outcomes

By the end of the course, you should be able to:

- Describe the layout and structure of a robust building and explain what makes a building vulnerable
- Summarise which legislation is relevant to disproportionate collapse and identify key clauses
- Classify buildings into their types, with respect to building use and size
- Outline different approaches for achieving robustness
- Determine a strategy for robustness compliance for buildings of different material types, use and size
- Have an appreciation of fire protection of different building materials and how fire safety plays a role in all building design

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

**25% discount on associated publications:**  
See website for details

## Tutor



**Gavin Knowles** is a lecturer at the University of Bath and prior to this has worked in practice as a Chartered Structural Engineer. His previous projects including many education and office buildings, along with conservation and refurbishment projects, interweaved with diverse structures, such as rammed chalk-walled houses, recycled material stages at WOMAD Festival and the odd sculpture. He now teaches structural design, conservation and leads on student design projects.



# Should you be getting CROSS?

CROSS (Collaborative Reporting for Safer Structures) shares knowledge to help create a safer built environment. Information is freely available and covers **fire** and **structural safety**.

Find lessons learned, improve your knowledge, and confidentially report safety concerns. Sign up to CROSS and you'll receive regular Newsletters and updates on emerging safety issues.

Helping you create a safer built environment



SCAN ME



Visit [www.cross-safety.org](http://www.cross-safety.org) or scan the QR code to find out more

## Temporary works design

### Course dates:

12 – 13 February

9 – 10 July

19 – 20 November

### Aim

This two-day course provides participants with an understanding of the basic principles of temporary works design.

### Learning outcomes

By the end of the course, you should be able to:

- Describe the principles of basic temporary works design methodologies
- Explain temporary loads, potential modes of failure and practical considerations
- Calculate concrete pressures and design formwork, falsework and back-propping
- Design a simple trench support scheme
- Apply basic wind loading, and design a site hoarding
- Design outrigger spreader pads for mobile cranes
- Design a simple needling scheme
- Apply the principles behind temporary works for demolition, facade retention and structural propping, basement construction and scaffolding design
- Discuss loads and modes of failure

### Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

### Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

Contributes to IPD Core Objective 3, 4, 7

### Tutor

**Ray Filip** has over 35 years' experience in the field of temporary works design and management and is a Fellow of the Institution of Civil Engineers. He has spent 20 years working for contractors in the UK and abroad and is a member of the committee responsible for revising BS5975 (British Standard for temporary works). Ray is currently a self-employed consultant having formed RKF Consult Ltd in 2007.



Ray is a Temporary works guru and an enthusiastic and engaging tutor. It was a really useful and enjoyable course.

# Timber workshop: design through worked examples

**Course date:**  
📅 **21 October**

## Aim

This advanced practical workshop teaches complex timber engineering through worked examples. It encourages problem-solving through teaching tools and group discussion.

## Learning outcomes

By the end of the course, you will learn about:

- Member sizing
- Tapered and curved members
- Connections, moment connections and avoiding brittle failures
- Fire design
- Stability and vertical diaphragm walls
- Vibration analysis
- Strength and stiffness of cross-laminated timber
- Glued-in rods

Contributes to IPD Core Objective **3, 4, 5**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Entry criteria

Attendance at the *Eurocode 5: The Essentials of Timber Design* course or familiarity with timber engineering to Eurocode 5.

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**Dr Keerthi Ranasinghe** is an Associate at Milner Associates and was previously the Principal Engineer for Structural Timber at BM TRADA. Formerly an academic with research and teaching experience both in the UK and abroad, Keerthi has delivered timber courses for IStructE since 2008. He is the author of several TRADA publications, including *Span Tables to Eurocode 5*, and the Institution's *Manual for the design of timber building structures to Eurocode 5, 2nd edition*. He sits on British and European Standardisation Committees related to timber design.

**25% discount on associated publications:**  
See website for details

# Understanding structural behaviour

**Course dates:**  
📅 **1 – 2 April**  
📅 **15 – 16 October**

## Aim

This two-day course shows engineers how to arrive at a qualitative solution to both create a structure and check computational results.

## Learning outcomes

By the end of the course, you should be able to:

- Apply powerful, qualitative (non-numerical) techniques to the solution of a range of framed structures
- Apply checking protocols for computer output and establish a reliable interpretation of the results
- Apply the qualitative approach to the approximate analysis of structures as an aid to the creation of the structural model
- Utilise the knowledge gained to develop and practise these skills in the design office

Contributes to IPD Core Objective **3, 4**

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

## Tutor



**Mark Moppett** has 37 years of experience and was Senior Partner and then Managing Director at Booth King from 2006 to 2021. He is now Director and remains a fully practising engineer, committed to the training and development of engineers. Prior to his role at Booth King, Mark was an Associate with international consultancy Arup in London, Hong Kong and latterly Manchester, delivering projects both nationally and internationally.



It's a privilege to take a course taught by Mark, and I can confidently say it was a transformative experience. His teaching style made the course so impactful. I have not only gained an understanding of the subject matter but also developed valuable skills that I can apply in my professional life.



# Understanding structural design

## Course dates:

📅 5 – 6 June

## Aim

This two-day course extends the principles developed in the *Understanding structural behaviour* course. It covers more complex real structures and failures, and the important skills of approximate analysis for checking computational output and member sizing.

## Learning outcomes

By the end of the course, you should be able to:

- Review the modelling process
- Recognise the fundamental behaviour of structural elements
- Determine initial sizes of most structural elements in steel and reinforced concrete including foundations and stability systems
- Develop overall scheme designs for building structures
- Appreciate overall structural equilibrium
- Interpret and explain the behaviour of real structures
- Reduce complex structures to simpler forms
- Avoid dependence on computer analysis and design
- Learn from real case studies

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Entry criteria

Attendance at the *Understanding structural behaviour* course is recommended.

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £515 + VAT |
| Member rate                | £575 + VAT |
| Standard rate              | £765 + VAT |

\*Available until one month prior

## Tutor



**Mark Moppett** has 37 years of experience and was Senior Partner and then Managing Director at Booth King from 2006 to 2021. He is now Director and remains a fully practising engineer, committed to the training and development of engineers. Prior to his role at Booth King, Mark was an Associate with international consultancy Arup in London, Hong Kong and latterly Manchester, delivering projects both nationally and internationally.



There's no better way to teach this skill other than this. I am privileged to be part of this experience. Kudos to Mark, his sound knowledge of the subject is second to none.

The Institution of  
**StructuralEngineers**

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- and much more



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[www.istructe.org/affiliate](http://www.istructe.org/affiliate)

# Wind loading on structures to EN 1991-1-4

## Course dates:

 Dates to be announced. Please check website.

## Aim

This course takes place as a series of two-hour interactive sessions over three weeks. It introduces EN 1991-1-4 for determining wind actions on structures, outlines the basic principles behind the code and covers each step of the procedure for calculating the wind loads on structures. Attention is given to important features introduced by the UK National Annex.

## Learning outcomes

By the end of the course, you should be able to:

- Describe the basic principles of EN 1991-1-4
- Determine site-specific wind data for a site in the UK
- Determine the design wind loads on a typical building structure and its cladding

Contributes to IPD Core Objective 3, 4

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £295 + VAT |
| Member rate                | £335 + VAT |
| Standard rate              | £445 + VAT |

\*Available until one month prior

## Tutor



**John Owen** is Associate Professor at the University of Nottingham, where he has taught structural analysis and design since 1993. He has research interests in wind engineering and structural dynamics and has conducted research on tubular structures and structural health monitoring. John is a Fellow of the UK Wind Engineering Society, where he was also Chair from 2009-2012.

# Writing skills for engineers

## Course date:

 12 June

## Aim

This course helps to improve the quality of written reports and reduce the time you spend writing. It covers how to adapt writing style for different documents and audiences. It will provide some grammar best practice to help with clear and concise writing.

## Learning outcomes

By the end of the course, you should be able to:

- Write in a direct and concise style
- Adapt your writing style to a range of audiences
- Write efficiently and not waste time
- Use digital tools for better writing
- Evaluate where to put your effort to improve your writing

Contributes to IPD Core Objective 2

## Intended for

- Graduate engineer
- Mid-career engineer
- Senior engineer/Team leader/Manager
- Business leader/Director (inc SMEs)
- Academic/Researcher
- Other built environment professionals and engineers

## Price

|                            |            |
|----------------------------|------------|
| Early booking member rate* | £325 + VAT |
| Member rate                | £365 + VAT |
| Standard rate              | £485 + VAT |

\*Available until one month prior

## Tutor



**Penny Taylor** has combined an engineering career in the automotive industry and academia with postgraduate qualifications in teaching, coaching and psychology. She has been teaching Finance and Management to engineers for over 10 years, based on practical lessons learned during her engineering career.



Penny was very engaging and enthusiastic. The organisation of the text/document was very used for me and also tips how to avoid wrongdoings.

# Frequently asked questions

## Q. How can I get 25% discount on associated publications?

The Institution's manuals and guides act as a valuable supplementary resource to the live teaching – and where relevant, are identified in the course description. An exclusive **25% discount** is available to course participants. Email [library@istructe.org](mailto:library@istructe.org) to claim your discount code.

## Q. Why are some courses more expensive than others?

IStructE members pay approx. 30% less than the standard (non-member) rate.

If you book more than one month prior to the course date you can take advantage of the lower early booking rates.

Our pricing is benchmarked against training offered by other professional membership bodies.

Any surplus generated is Gift Aided back to the Institution to further its charitable aims.

## Q. Can I book on behalf of someone else?

Yes. Select the 'Book now' button on the course page, tick 'Booking on behalf of someone else' and then select 'Add delegate'. If the delegate is a member of the Institution, you must enter the email associated with their membership to receive the member rate.

## Q. Are there reduced rates for students or those that are unemployed or on low incomes?

The CPD programme is generally aimed at postgraduates and those further on in their careers. It is therefore not suitable for undergraduate students, and so we have not set a student rate. Any Institution member who is paying the Low Income Reduction (LIR) membership subscription fee can claim the same percentage reduction on course bookings. The LIR rate is often an option for postgraduate students, or those on low incomes or not in employment, etc. If you believe this applies to you, please contact [training@istructe.org](mailto:training@istructe.org).

## Q. Are the courses mostly in London?

The 2025 professional development programme will be delivered primarily online to maximise accessibility. Some courses will be held at our London headquarters and other locations.

Alternatively, many of our courses can be delivered to your teams on your premises, at a place and time that suits your organisation.

## Q. Can I cancel my booking?

Yes. You can request a cancellation via your IStructE online account or by emailing [training@istructe.org](mailto:training@istructe.org). See terms and conditions for further detail.

## Q. Can live courses be recorded to watch back on-demand?

No. Our courses are run as workshops with a limited number of participants. This is so we can give tutors the opportunity to build hands-on, individual and group work into the day and give participants the chance to ask questions. This format doesn't lend itself to livestreaming or filming in the same way as a lecture.

## Q: I have booked on a course. What happens now?

You will receive a booking confirmation when you book then joining instructions and further information two weeks prior to the course date.

If you have any queries please get in touch with [training@istructe.org](mailto:training@istructe.org) at any time.

# Terms and conditions

By booking your place on a Continuing Professional Development Course you are entering into a binding agreement. Your booking is confirmed as soon as payment is received. If you request an invoice to pay by BACS, your booking will not be confirmed until payment has reached our account.

If you are attending in-person training you are advised to take out appropriate travel insurance, as we will not accept any liability for travel, accommodation or other expenses incurred as a consequence of a possible course cancellation or postponement. In any event, The Institution of Structural Engineers will not accept liability for any loss, including incidental or consequential damages, etc.

## Definitions

For the purposes of these terms and conditions:

the “Course” refers to the Professional Development workshop or lecture

“Participant” means a person for whom you have ordered or purchased a place to the Course including yourself (if you are an individual)

“Venue” means The Institution of Structural Engineers, 47-58 Bastwick Street, London, EC1V 3PS, UK (unless otherwise stated).

“we”, “us” and “our” means IStructE Limited, a company registered with Companies House and incorporated in England and Wales (registered number 2444141). IStructE Limited is the wholly-owned trading subsidiary of The Institution of Structural Engineers. The registered address for IStructE Limited is 47-58 Bastwick Street, London, EC1V 3PS

“you” and “your” means, if you are acting as a consumer, the person named on the Course booking and if you are acting as a business, the organisation named as the “Company” on the Course booking.

## Price and Payment

Ticket prices are exclusive of VAT.

Bookings should be made online and paid via Visa or Mastercard. You can also request to pay by BACS. An invoice will be supplied within two working days.

Payment must be received by The Institution of Structural Engineers within 14 days of the invoice date.

Your place on the Course is confirmed once payment has been received in cleared funds. You will receive confirmation of your booking by email.

We reserve the right to change (for a reasonable alternative) the delivery format, start and finishing times, dates, speaker or presenter and the venue of the Course without incurring any liability to you.

The price does not include any travel costs or any costs of accommodation. The price relates solely to attendance at the course, (which includes refreshments and a buffet lunch for full day face-to-face courses only).

## Special requirements

Special requirements must be requested at least five working days prior to the Course. Any requests made after this date cannot be guaranteed and additional charges may apply, including, but not limited to vegan or kosher menus; special access requirements.

## Communication

You accept that communication with us may be electronic. We may contact you by email or provide you with information by posting notices on our website. For contractual purposes, you agree to this electronic means of communication and you acknowledge that all contracts, notices, information and other communications that we provide to you electronically comply with any legal requirement that such communications be in writing. This condition does not affect your statutory rights.

We may give notice to you at either the email or postal address you provide to us on booking, or in any of the ways specified. Notice will be deemed received and properly served immediately when posted on our website, 24 hours after an email is sent, or three days after the date of posting of any letter.

In proving the service of any notice, it will be sufficient to prove, in the case of a letter, that such letter was properly addressed, stamped and placed in the post and, in the case of an email that such email was sent to the specified e-mail address of the addressee.

All notices given by you to us must be given to The Institution of Structural Engineers, 47-58 Bastwick Street, London, EC1V 3PS, UK, or by email to [training@istructe.org](mailto:training@istructe.org).

## Cancellations

Cancellations can be requested online or by email. If you cancel on or before one month before the Course date, we will refund your booking fee in full or cancel your invoice. If you cancel less than one month before the Course no refund will be given. If an invoice was requested and you request a cancellation less than a month before the Course, you will still be liable to complete payment.

If we cancel the course, we will refund all booking fees paid. We do not, however, accept liability for travelling, accommodation or any other expenses incurred as a result of any cancellation or postponement of the Course.

Our liability for loss or damage incurred as the result of cancellation or postponement of the Course is limited to the amount of your booking fee.

If the Course is postponed for reasons beyond the direct control of the organisers (Force Majeure), this booking will be transferred to the revised date of the Course and all these Terms and Conditions shall apply to any such transferred booking.

If we haven't received a minimum number of bookings, we may need to cancel a course. We will offer a full refund or a transfer to a future date.

## The Course

A substitution of a Participant named on your booking can be requested by giving written notice to us. We reserve the right to accept or deny your request.

During the Course the presenter may use their own copyrighted material. Any unauthorised recording, copying or posting of this material is an infringement of their copyright.

We reserve the right to refuse entry to the Course to any Participant if, in our opinion or the opinion of the presenter, the Participants' behaviour is considered inappropriate. In this case they may be refused entry or asked to leave and excluded from the Course without refund or compensation. Reasonable security searches at the Venue may take place.

## Liability

The Institution of Structural Engineers shall not be liable to you or any Participant (whether such liability arises in contract, tort (including negligence) or otherwise for:

any loss of profit, loss of or damage to reputation or goodwill or any indirect, special or consequential damages, loss, costs, claims or expenses of any kind; and/or

any loss or damage arising from a failure or delay in performing our obligations under the Contract to the extent that

such failure or delay was caused or contributed to by an act or omission by you or any Participant.

The exclusions and limitations of liability shall not apply to any loss suffered by any person arising out of:

the fraud and/or fraudulent misrepresentation of the person seeking to rely on the exclusion or limitation; and

death or personal injury resulting from negligence on the part of the person seeking to rely on the exclusion or limitation.

You are responsible for taking appropriate insurance cover in connection with your attendance at the Course. Where a Participant is travelling from outside of the United Kingdom to attend the Course, appropriate travel insurance should be purchased independently and in advance of any travel or travel bookings.

The views expressed by any presenter at the Course are representative of the presenter's own opinions and cannot in any way be attributed to us. We are not liable for the content of the Course, although we take reasonable checks to ensure that it is appropriate.

## Correspondence Address:

**Professional Development Courses**  
IStructE Limited  
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London EC1V 3PS

Email: [training@istructe.org](mailto:training@istructe.org)

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## CPD mandatory reporting scheme

**Structural engineering is constantly evolving, and keeping up to date with technical and professional developments is essential.**

If you're a practising, professionally qualified member of the Institution (Fellow, Chartered, Associate, Associate-Member or Technician Member) we may contact you and ask you to submit a CPD Record as part of the Mandatory Reporting Scheme. Your record should outline how you have accumulated 30 CPD 'hours' per annum.

If you don't submit a record upon request, you may be removed from membership (although we would always consult with you first and mitigating circumstances can be taken into account).

Attending one of our CPD courses is a great way to demonstrate CPD but there are many other options.

You can demonstrate your development by working with Institution committees, panels and study groups; watching recorded lectures and conferences; reading *The Structural Engineer* and other Institution publications; volunteering your time for education and careers activities; and through your own practical experience.



Find all the CPD information you need at:  
[www.istructe.org/training-and-development](http://www.istructe.org/training-and-development)

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**25% off** a course's associated publication where listed

**10% discounts** for group bookings of more than 5 attendees on a course

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**Participate** in IStructE conferences and events [istructe.org/events](http://istructe.org/events)

# The Institution of StructuralEngineers

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