

Getting to Net Zero: Online course

passivhaustrust.org.uk/event_detail.php

UK Passivhaus Conference 2021: Delivering Net Zero through Passivhaus

Date: On-demand **Time:** N/A

Location: Online **Cost:** PHT member: £100+VAT, Non-member: £150+VAT



• *New on-demand format* •

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The increased focus on the Climate Emergency has led to a stream of declarations to achieve Net Zero. But what does that actually mean to the built environment? Do we really know how to design and deliver a true net-zero building?

Back due to unprecedented demand - the popular online course has been formatted into 8 pre-recorded modules that can be completed at your leisure.

Explore issues surrounding net-zero, and gain practical illustrations of what it takes to get to net-zero in both operational and embodied carbon. What can be done at the design stage to achieve the biggest impact?

Who is the course aimed at?

This course will be of interest to anyone who wishes to understand why many low-energy buildings are far from net-zero. Architects, designers, and consultants who need to explain to clients how to achieve a zero-carbon building in practice will benefit.

PHI Credit Renewal Points available: Delegates will earn PHI credit points towards renewal of their Certified Passivhaus Designer / Consultant qualification once the full course is complete. See [here](#).

Course Programme

Module	Section	
1 Operational	How buildings produce carbon and where are we now? Module 1 looks at the way in which energy is delivered and used in buildings and therefore how and where carbon emissions occur. It looks at the current emissions of UK buildings and how these have changed over recent years. The module then explains how our current regulatory system works and what level of performance we are currently building to. On-demand <i>John Palmer, Passivhaus Trust</i>	Block booking available.
2 Operational	Passivhaus as a component of Net Zero Module 2 provides an introduction to the Passivhaus standard, explaining the key criteria, what this means for net zero design and construction before looking at some common myths around Passivhaus and low energy buildings. On-demand <i>John Palmer, Passivhaus Trust</i>	
3 Operational	What is net zero and what are the issues? Module 3 looks in more detail at the definition of a net zero building and sets out the challenges in achieving this in the UK over the next 30 years. On-demand <i>John Palmer, Passivhaus Trust</i>	

4 Achieving Net Zero – new build and retrofit.

Operational Module 4, the final module in the Operational Emissions series, follows on from the challenges by exploring how we might achieve a net zero future looking at the problem from both the new-build and retrofit perspective.

On-demand

John Palmer, Passivhaus Trust

5 Introduction to definitions and methodology

Embodied Module 5 gives a brief overview of what is included in embodied carbon analysis, methodology and datasets. This session also discusses key watch points when pulling materials data from BIM models and offers a brief discussion on the inclusion of MEP in the embodied carbon model.

On-demand

Kirsten Henson, KLH Sustainability

Block
booking
available

6 Materials: concrete and steel

Embodied Module 6 starts to examine materials – what should we be using and in what way? Based on global consumption, embodied impact, and contribution to life-cycle carbon, what are the justifications for using three key materials: timber, concrete and steel? This session includes a more detailed look at the carbon profile of concrete and steel and key technical considerations in use, specification and procurement.

On-demand

Kirsten Henson, KLH Sustainability

7 Materials: timber and other materials

Embodied Module 7 follows on from the previous session to include a detailed look at the carbon profile of timber and the key technical considerations in use, specification and procurement. The session also looks at other materials, including external wall finishes, insulation and refrigerants.

On-demand

Kirsten Henson, KLH Sustainability

8 Top tips for designing low-embodied buildings

Embodied Module 8 concludes the series with a summary of top tips for designing low carbon buildings, using real projects to highlight key considerations and potential impact.

On-demand

Kirsten Henson, KLH Sustainability

Format

- The course includes pre-recorded modules that can be watched on-demand at your leisure.
- The duration of modules 1-8 are approximately 30 minutes.
- Access to on-demand modules is valid for 12 months.

Tutors



**John Palmer,
Research and Policy
Director, Passivhaus
Trust**

John is a certified Passivhaus consultant, SAP Assessor, systems engineer and experienced project manager.

Authored [Passivhaus: the route to Zero Carbon?](#)



**Kirsten Henson, Director, KLH
Sustainability**

Kirsten provides specialist sustainability input to the International Olympic Committee & prominent Independent Design Reviews. Her research includes the sustainable use of aggregates considering aspects such as regional availability, social impacts of transportation and carbon footprint.



**Tim Martel,
Architectural
Technologist**

Tim is a Passivhaus Designer and Retrofit Coordinator with a background in calculations through commercial R&D. He is an expert of PHPP and has written the PH Ribbon tool.

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Cost

	Full course (8 on-demand modules + live interactive workshop)	Block of Operational modules	Block of Embodied modules
PHT member	£100+VAT	£35+VAT	£35+VAT
Non- member	£150+VAT	£50+VAT	£50+VAT
