Integrated Energy Systems in the Built Environment

Six-week Hybrid Skills Development Course – Fully Funded Pilot

Join us for a highly engaging fully funded six-week hybrid course to develop your skills and understanding around the built environment and integrated sustainable energy systems, including wind, solar and heat pumps.

If you are interested in exploring green careers or are already working in high-growth-potential sectors (such as construction; renewable energy; engineering; architecture) in Cornwall and the Isles of Scilly, this designer-level professional development course is for you!

Supported by academic experts within the *University of Exeter Engineering* and the *University of Exeter Business School*s, with industry partners including *Planet A Solutions*, this course will help you develop the skills and knowledge needed for sustainable high value green skills careers across the renewable energy sector. Alongside developing new professional knowledge and skills, the course will be a valuable networking opportunity to extend your professional connections in Cornwall and the Isles of Scilly. We will also signpost you towards further skills development opportunities and support.

How to Apply

Submit your expression of interest to attend this event here.

Please register your interest by submitting the form linked above. Places on this course are limited and offered to eligible Cornish residents on a first come basis. Once submitted we will assess your information and confirm if a fully funded place will be offered to you.

Course Overview

Dates: 17 June – 26 July 2024

Teaching Methods: This is a hybrid course and will involve remote online learning and design exercises, live hybrid teaching sessions, remote seminars and in-person site visits and workshops. The course has been designed to be flexible wherever possible. In-person sessions are optional (but highly recommended), with the chance to catch-up online. Please find further information below.

Teaching Locations: In-person sessions will be based on the *Penryn University Campus* in Cornwall.
Live remote sessions will be delivered via Zoom.
Self-directed learning and design exercises will be accessed via an online learning platform. Recordings of all live sessions will also be provided here for catch up.

Course Structure

This course is delivered over six weeks (one module per week).
Further information on each module below:

Module 1	***Sustainable Leadership***	**Topics:** *Circular Economy, Social Enterprise, B Corp*
Teaching Session:	11:00 - 13:00 Tuesday 18th June 2024	Live: in-person (Penryn Campus) or remote (Zoom) Catch-up any time via the online learning platform
Evening Review Session:	19:00 - 20:30 Thursday 20th June 2024	Live: remote (Zoom) Catch-up any time via the online learning platform

Module 2	***Planning for Change***	**Topics:** *Climate Emergency, Sustainability in Construction, Renewable Energy, Biodiversity Net Gain*
Teaching Session:	10:30 - 13:00 Tuesday 25th June 2024	Live: in-person visit to local wind farm (from Penryn Campus) Catch-up any time via the online learning platform
Evening Review Session:	19:00 - 20:30 Thursday 27th June 2024	Live: remote (Zoom) Catch-up any time via the online learning platform

Module 3	***Introduction to Integrated Fabric Design***	**Topics:** *U Values & Material Considerations, Infrared Thermography, Airtightness & Heat Delivery*
Teaching Session:	11:30 - 15:30 (with lunch) Wednesday 3rd July 2024	Live: in-person (Penryn Campus) or remote (Zoom) Catch-up: any time via the online learning platform
Evening Review Session:	19:00 - 20:30 Thursday 4th July 2024	Live: remote (Zoom) Catch-up: any time via the online learning platform

Module 4	***Renewable Energy Systems Integration:*** *Heat Pumps*	**Topics:** *Centralised heating Systems, Newbuild Smart Homes, Heat Networks, Boreholes & Slinky Arrangements*
Teaching Session:	11:00 - 13:00 Tuesday 9th July 2024	Live: in-person (Penryn Campus) or remote (Zoom) Catch-up: any time via the online learning platform
Evening Review Session:	19:00 - 20:30 Thursday 11th July 2024	Live: remote (Zoom) Catch-up: any time via the online learning platform

Module 5	***Renewable Energy Systems Integration:*** *Solar Power*	**Topics:** *Harnessing solar energy, Panel Choice, In roof / On Roof, BIPV, Orientation, Suitable Roof Space, Shading, String Designs*
Teaching Session:	10:00 - 15:00 (with lunch) Tuesday 16th July 2024	Live: in-person teaching and practical workshop *'Building a Solar Array'* (Penryn Campus) Catch-up: any time via the online learning platform

Module 6	**Designing for Retrofit**	**Topics:** *Designing for Change, Energy Impact & Heat Delivery in Retrofit, Market Solutions & Retrofit Building Standards*
Teaching Session:	11:00 - 13:00 Tuesday 23rd July 2024	Live: in-person (Penryn Campus) or remote (Zoom) Catch-up any time via the online learning platform
Evening Review Session:	19:00-20:30 Thursday 25th July 2024	Live: remote (Zoom) Catch-up any time via the online learning platform

Travel & Transport

The Penryn University Campus is very well connected with public transport, for details please see here: Accessing Our Campus – FX Plus.

Parking is available at the campus, and you can request a 'Free Parking' code from event organisers for in-person teaching sessions.

Please opt for sustainable travel options such as public transport, walking or cycling wherever possible. If you do choose to drive, please consider carsharing where possible.

Eligibility & Paperwork

You will be asked to submit eligibility information prior to the course and sign paperwork on arrival at sessions. This is a requirement of our funder and your assistance is greatly appreciated.

UK Subsidy Control

The UK Subsidiary Aid financial assistance attributed to engagement with this activity is valued at £1200 per learner. UK Subsidiary Aid (government state aid as defined at Section 2 of the Subsidy Control Act 2022) will apply if you are accessing this training through your employer or your own business that is an eligible economic entity operating in Cornwall and the Isles of Scilly. Relevant business representatives will be required to sign paperwork confirming UK Subsidiary Aid financial assistance attributed to this engagement prior to acceptance onto the course.

To satisfy Subsidy Control law, the award will be made on the basis of the "Minimum Financial Assistance" provision ("MFA"), as set out in Section 36 of the Subsidy Control Act 2022. This allows a business to receive up to £315,000 of subsidy over a rolling three-tax year period (including the current one). The threshold takes account of awards of all MFA awarded in the three-year period.

About the Project

The Future is Green

This course is delivered by the University of Exeter under *The Future is Green* project, a collaborative research project that delivers skills development courses and programmes to individuals across Cornwall and the Isles of Scilly. The project aim is to support the development of skills needed for the future green economy. The project is led by The Cornwall College Group in collaboration with 8 highly experienced delivery partners, including the University of Exeter. The project runs from January 2024 to March 2025.

This project is part-funded by the UK Government through the UK Shared Prosperity Fund. Cornwall Council has been chosen by Government as a Lead Authority for the fund and is responsible for monitoring the progress of projects funded through the UK Shared Prosperity Fund in Cornwall and the Isles of Scilly.

By attending this course, you confirm that you are happy that your data will be shared with the Lead Partner (The Cornwall College Group) and Cornwall Council and the Department for Levelling Up, Housing and Communities (DLUHC) and their data processors/project evaluators. More information on the University of Exeter's privacy policies can be found here. For more information on the Growth Hub's privacy policy, please visit this page.

Contact

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