

**Course      LOW CARBON HOUSING REFURBISHMENT**

<b>Duration</b>	2 day sessions 15 RIAI Structured CPD points (7.5 points if first day only attended)
<b>Location</b>	Nova UCD, University College Dublin, Belfield, Dublin 4
<b>Aim</b>	To provide participants with the information and skills necessary to direct whole-house refurbishment packages while ensuring the most effective approach in terms of energy, carbon and cost.
<b>Content</b>	<p><b>The low-carbon, low-energy refurbishment of existing housing including -</b></p> <p>Day 1- <i>The Challenge</i></p> <ul style="list-style-type: none"> <li>▪ The challenge presented by the existing Irish housing stock</li> <li>▪ Advanced insulation and airtightness to achieve 80% CO<sub>2</sub> emission reductions</li> <li>▪ Using <i>DEAP</i> to explore improvement packages on a range of dwelling types</li> <li>▪ Building services, fuels and technologies for low carbon dwellings</li> <li>▪ Costs and carbon saving workshop – Whole life cost benefit analysis</li> <li>▪ Checklists for details and specification of building fabric/services, including renewables</li> </ul> <p>Day 2 <i>The Detail</i> (optional)</p> <ul style="list-style-type: none"> <li>▪ Retrofit strategies and solutions for whole house approach</li> <li>▪ Air tightness and ventilation</li> <li>▪ Building fabric improvement workshop</li> <li>▪ Reducing what's left of the thermal load</li> <li>▪ Tackling the electrical power demand plus local generation technologies</li> <li>▪ Whole house improvement workshop – Case Study: achieving 80% CO<sub>2</sub> reductions</li> </ul>
<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>▪ Understand the challenge and process of refurbishing existing housing to meet a target of reducing domestic carbon dioxide emissions 80% by 2050</li> <li>▪ Gain practical and objective information on refurbishment packages embracing building insulation, air-tightness, ventilation, building services and renewable energy systems</li> <li>▪ Identify appropriate measures for dwellings of different types and construction</li> <li>▪ Learn about unfamiliar technologies and potential pitfalls or problem areas</li> <li>▪ Provide simple and effective whole life cost and energy / carbon analysis techniques for improvement options (Calculation Tool provided)</li> <li>▪ Identify grant assistance available</li> <li>▪ How to maximise the <i>SEI DEAP</i> software as a design tool and for option analysis</li> </ul>
<b>Audiences</b>	For construction professionals involved in directing the refurbishment of existing dwellings to achieve low-carbon/low-energy standards; architects, surveyors, building services engineers, BER Assessors, local authorities, housing associations, asset management staff. The course will also interest specialist builders, heating and insulation installers.
<b>Presenters</b>	<p>Peter Rickaby (Rickaby Thompson Associates) William Scott (Scott + MacNeill)</p> <p>The course presenters have extensive experience of: low-energy housing design and refurbishment in Ireland and the UK, training for low carbon housing design and retrofit in Ireland and the UK, the development of BER tools, training BER assessors in Ireland, contributing to the development of the <i>Heat and Energy Saving Strategy</i> for the existing housing stock in the UK and the Building Energy Rating strategy in Ireland, current cutting edge <i>Retrofit for the Future</i> projects in the UK and applying <i>PassivHaus</i> techniques to existing dwellings.</p>
<b>Information</b>	<p>Tracie Didcock, Rickaby Thompson Associates Limited, Witan Court, 296 Witan Gate West, Central Milton Keynes. MK9 1EJ</p> <p>T: +44 (0)1908 679520, F: +44 (0)1908 201406 E: <a href="mailto:tracie.didcock@rickabythompson.com">tracie.didcock@rickabythompson.com</a></p>

**LOW CARBON HOUSING REFURBISHMENT (LCHR) - BOOKING FORM****Candidate Details**

Name (PLEASE PRINT) \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Mobile \_\_\_\_\_

Email \_\_\_\_\_

**EMPLOYED: UNFUNDED CANDIDATE: €500**

Role \_\_\_\_\_

Practice/Company/Organisation \_\_\_\_\_ VAT No. \_\_\_\_\_

Local Authority Bookings must be accompanied by a **Purchase Order Number**.Without this the Booking cannot be processed. **PO No.** \_\_\_\_\_Cheque Amount enclosed \_\_\_\_\_ **€500** Cheque number \_\_\_\_\_Cheques should be made payable to: **Rickaby Thompson Associates Limited**

Signature \_\_\_\_\_ Date \_\_\_\_\_

**EMPLOYED: PARTIALLY FUNDED CANDIDATE: €375**

Role \_\_\_\_\_

Practice/Company/Organisation \_\_\_\_\_ VAT No. \_\_\_\_\_

I hereby agree to pay the sponsors 'The Eco Construction Skillnet' the sum of **€375** upon receipt of their invoice.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**UNEMPLOYED: FULLY FUNDED CANDIDATE: €0**

Qualifying benefit: \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Please return **fully completed Booking Form and Cheque\*** with full payment by post to:  
Tracie Didcock, Rickaby Thompson Associates Limited, Tel: +44 (0)1908 679520, Fax: +44 (0)1908 201406,  
Email: [tracie.didcock@rickabythompson.com](mailto:tracie.didcock@rickabythompson.com)

\* Unfunded candidates only

Do you have any disability or special requirements you would like us to know about? Please describe the supports you request.

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*The Training Partnership will endeavour to facilitate an individual's requirements to the best of its ability.*

**PLEASE NOTE: IMPORTANT COURSE INFORMATION ON FOLLOWING PAGE**

## LOW CARBON HOUSING REFURBISHMENT - COURSE INFORMATION

Courses will commence promptly at 09.00. Participants are asked to register no later than 08.45.

Tea and coffee will be served throughout the day. A sandwich lunch with tea and coffee is available to participants. Participants may also use the café facilities of NovaUCD.

Participants are requested to bring a laptop PC running Window XP or Vista as a minimum requirement, downloads will be supplied via a USB memory stick. The workshops will involve teams of 3 working together and using DEAP3 and Excel as part of the analysis tools on participants' laptops. It is recommended that participants should have a working familiarity with the software and have DEAP3 and Excel preloaded on their laptops. An introductory training session for DEAP is available for participants who may not be familiar with the software.

CPD certificates will be issued on completion of courses by email

*Places are confirmed on a first come, first served basis. Places are confirmed only when full payment has been received. Cancellations for bookings received will incur a 15% administration charge. Cancellations received 2 - 5 working days before the start of a course day of a course will incur a 75% cancellation fee. Cancellation on the day of a course, or the day before, will incur a 100% cancellation fee. Substitution of dates and/or participants may be offered where unforeseen circumstances prevent a delegate from attending. This will be done on a case by case basis but only for the entire session and not for selected elements. Rickaby Thompson Associates/Scott + MacNeill reserve the right to cancel or re-schedule courses when necessary. In the unlikely event that a course is cancelled, a full refund will be given.*

### **Location: NOVA UCD, BELFIELD, DUBLIN 4.**

Covered bike stands located at side of building. Dublin Bus numbers 3, 10, 11B, and the 17 all provide direct services to the Belfield campus (the numbers 3, 10 and 11B can be boarded at O'Connell Street). Free car parking also available to participants on rough surfaced car park. **Access to NovaUCD by car is from Fosters Avenue Entrance only.**

### **MAP OF PART OF UCD BELFIELD CAMPUS**

