DASBE
Digital Academy for the Sustainable Built Environment

TUS
Technological University of the Shannon: Midlands Midwest
Ollscoil Teicneolaíochta na Sionainne: Lár Tíre Iarthar Láir

An Chomhairle Oidhreachta
The Heritage Council

Certificate in Energy Renovation for Traditional Buildings

Source: The House on the Brae, Ramelton, Co Donegal, Heritage Council Community grant-funded project CH14840, Insulated sloped ceiling. Photo Duncan McLaren, Dedalus Architecture

DASBE is delighted to announce that the Technological University of the Shannon (TUS) with support from The Heritage Council will again be delivering the ***accredited Level 8, Special Purpose Award*** **"Certificate in Energy Renovation for Traditional Buildings".**

This programme is delivered in two modules and will introduce participants to the fundamental principles of energy renovation: thermal performance characteristics of historic building materials', energy management in historic interiors, and the use of appropriate designs and specifications for retrofitting works to reduce energy use in traditionally-built structures in accordance with good practice conservation principles. It will aid in finding pathways to compliance with Part L of the Building Regulations and based on ISEN 16883 'Conservation of cultural heritage – Guidelines for improving the energy performance of historic buildings'.

The first module *'Fundamentals in Energy Renovation for Traditional Buildings'* aims to balance energy reduction strategies with heritage conservation principles and will take a sustainability perspective, highlighting minimum intervention principles as a means of further reducing the carbon impact of the buildings and construction through maximising the potential for the adaptive re-use of buildings and building elements.

The second module *'Building Defects Detection and Analysis'* will introduce participants to digital tools and techniques for documenting the condition of existing buildings and detecting and analysing defects. These tools have become essential components in contemporary design and construction practices. This module will demonstrate how to integrate, utilise and exploit these for the specification of works to existing traditional buildings.

This 10 credit Level 8 SPA, Certificate in Energy Renovation for Traditional Buildings, is just one of a number of Special Purpose Awards (SPA's) offered by the Digital Academy for the Sustainable Built Environment (DASBE) in response to the climate action plan. DASBE aims to upskill building professionals in the design and delivery of high quality, energy-efficient renovations to existing buildings.

This programme will be of interest to those wishing to expand their renovation or retrofitting capabilities and qualifications in specifying for the repair and modification of traditional construction, architectural and engineering defect detection and management.

What will I study?

The following modules are delivered over the course of two semesters:

SEMESTER 1

Fundamentals in Energy Renovation of Traditional Buildings – 5 credits

This module is to provide you with the relevant knowledge of the underpinning principles of building specifications, typical construction performance characteristics, environmental approaches, appropriate methodologies and solutions during the energy renovation of traditional buildings (pre 1940s).

SEMESTER 2

Building Defects Detection and Analysis – 5 credits

You will gain practical experience in the use of digital tools for detecting and analysing defects in existing buildings prior to energy upgrades. Techniques for sensitive data gathering in accordance with best practice conservation principles applied. You will be shown how the use of thermal imaging cameras, scanners and other tools can be utilised to capture building defects and enable condition surveys. Practical digital activities and Virtual Reality training is provided.

Delivery:

Both modules will be delivered in a blended format with online lectures supported with practical workshops and site visits. Expert guest speakers and industry contributors will support the lecturers in the programme. The blended learning format will include six online live lectures fortnightly and two practical workshops or site visits. The two modules will run sequentially over 24 weeks.

Minimum Entry Requirements:

Applicants will require a minimum Level 7 award in relevant cognate areas.

Mature students (23 years of age on 1st January preceding application) can apply.

Applicants who do not meet the minimum entry requirements but who have sufficient industry experience by applying Recognition of Prior Learning (RPL) policy and procedures established by the University.

Cost

€833 (reduced from €1250 with DASBE funding support)

If you are not in a position to complete the entire SPA now, you have the option to complete the Fundamentals in Energy Renovation for Traditional Buildings offered as a stand-alone module. This flexibility is an important innovation of DASBE, providing the opportunity to complete modules in your own time, building up to an accredited certificate or award.

Fundamentals of Energy Renovation of Traditional Building - **€417** (reduced from €625 with DASBE funding support)

How to Register

We are taking applications now and if you wish to register please click on the following DASBE link:

https://dasbe.ie/all-programmes/certificate-in-energy-renovation-of-traditional-buildings/

How to get in touch:

Ms. Elisabeth O'Brien at Email: info@dasbe.ie

Find out more about this and other courses on DASBE https://dasbe.ie/