

## Sustainability, Climate Change & Environmental Knowledge

This track is for anyone who wants to learn more about sustainability through various topics. You will have a better understanding of climate change and the environment, as well as how to actively take steps to mitigate our environmental impacts, whether individually, at work, or collectively.

## Green Buildings & Sustainable Neighborhoods

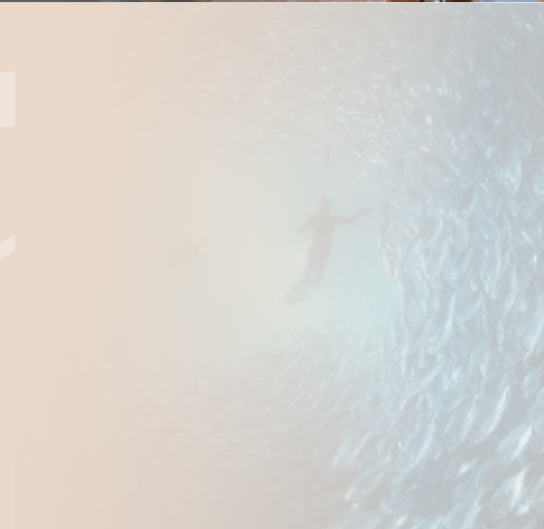
This track has been designed to give architects, engineers, developers, landscapers, or any other construction professional a complete and methodical understanding of sustainable design & construction, with case studies & best-practice examples, and a preparation to green building certifications & LEED accreditations.

## The Circular Economy & Eco-Design

This track will open your eyes about the Circular Economy, and how we can contribute to accelerating the change towards it. You will learn about the principles of designing for circularity, meaning designing out waste & pollution, keeping products & materials in use within the production or biological cycles, and regenerating natural systems.

## Eco & Social Entrepreneurship

The aim of this track is to assist potential eco and/or social entrepreneurs in launching new environmental/social start-ups in a very practical way. You will learn how to convert step by step your Green or Social Business Ideas, or a new idea proposed during the workshops, into a sound & feasible business project and find solutions to the challenges of doing so along the way.



## Green Buildings & Sustainable Neighborhoods

### “Eco-Building, Sustainable Construction, BREEAM & LEED Green Associate Training”

This innovative Track, suitable for all levels, has been designed to give architects, engineers, developers, landscapers, or any other construction professional or student a complete & methodical understanding of green & sustainable design and construction. You will also be able to identify different measures that can be applied to buildings to reduce their impact in terms of eco-design, materials, energy, water and waste. Finally, this track will prepare you for the LEED Green Associate (GA) exam.

Nov	29	SE01	An intro to Sustainability, Climate Change, Ecological & Carbon Footprint, Green Construction: Why should we care?
	30	GB01	Introduction to Green Building Certifications
	30	GB08	Choice of Materials & Waste Management - PART I
	1	GB08	Choice of Materials & Waste Management - PART II
	6	GB02	Sustainable Sites, Ecology & Land-use
Dec	7	GB05	Introduction to Renewable Energies
	8	GB06	Bioclimatic Design in Warm Countries
	13	GB03	Energy-Efficiency - HVAC systems
	14	GB09	Introduction to Water Conservation
	15	GB04	Energy-Efficiency - Lighting Thermal modelling & Case Studies
	20	GB10	Green Buildings Case Studies: <i>IC Elementary School</i> (LEED Gold) & <i>M1 Headquarters</i> (LEED Platinum) & <i>Casa Batroun</i> (BREEAM Excellent)
	21	GB11	Overview of LEED, the USGBC, and GBCI LEED GA Exam Preparation - PART I
22	GB12	LEED GA Exam Preparation - PART II	

\* All seminars will start at 5:30pm & will last approximately 2 hours



Most of the seminars in the Green Building & Sustainable Neighbourhood Track will be given by the [EcoConsulting team](#)

## The Green Building Track

Following successful trainings & conferences in the UK since 2003, EcoConsulting has accumulated a track record in giving and animating seminars, workshops, conferences & activities on eco-buildings and sustainability. With over 15 years of experience as consultants in environmentally-friendly buildings, and having worked on the majority of the certified BREEAM & LEED green buildings in Lebanon, our seminars will provide the attendees with best practice solutions and technologies, in-depth knowledge on green construction, and plenty of real case examples from the projects we have worked on: check our [newsletter](#) and [website](#) for some.

12 Seminars, each approximately 2 hours, cover both theoretical concepts & practical applications on ways to minimize and mitigate the impacts of buildings on the natural environment, as well as enhance the health & well-being of buildings' occupants. **Case studies** have also been integrated into the Track's program to enrich the course with practical examples of projects in Lebanon.

In addition to the regular presentations, during some of the seminars we invite specialist professionals in the construction industry to intervene & present specific eco-friendly solutions or products.

## The Certificate

The seminars can be undertaken individually or in any combination, and count each for 1 UNIT at the Circular Hub.

You will be able to obtain the “**Green Buildings & Sustainable Neighbourhoods**” Certificate, by attending a series of sessions related to the Green building & Sustainable Neighbourhood Track and securing a minimum of **12 Units**.

Most eco-building design recommendations and techniques can be considered & applied to all types of projects, whether residential, commercial, institutional, or other public buildings.

This Certificate can also contribute to the **LEED Green Associate (GA) or LEED Accredited Professional (AP) Credentials Maintenance Program (CMP)**, or to demonstrate eligibility in order to register for the **LEED GA exam**.

## The Seminars

	<b>SE01- Tuesday, Nov 29<sup>th</sup></b>	
○	<p><b>An intro to Sustainability, Climate Change, Ecological &amp; Carbon Footprint, and Green Construction: Why should we care?</b></p> <p>Overview of sustainable development and the three pillars of sustainability, how is Climate Change affecting us, and why should we care? What is our Ecological Footprint &amp; the overshoot day? Do you know your individual Carbon Footprint, are there some measures to reduce it? Why we should move to greener construction &amp; energy-efficient, healthier buildings?</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
	<b>GB01 - Wednesday, Nov 30<sup>th</sup></b>	
○	<p><b>Introduction to Green Building Certifications</b></p> <p>Overview of BREEAM certifications in the UK, overview of LEED certification in the US, comparison between BREEAM and LEED; overview of ARZ in Lebanon</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
	<b>GB08- Wednesday, Nov 30<sup>th</sup>&amp; Thursday, Dec 1<sup>st</sup></b>	
○	<p><b>Choice of Materials &amp; Waste Management - Part I &amp; II</b></p> <p>Importance of materials selection in construction (lower impact materials, local and regionally-sourced materials, recycled or re-used materials, sustainably-sourced materials and timber, renewable materials).</p> <p>How to choose between different building elements and low-impact finishes. The importance of waste management during construction and during the building's operation.</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
	<b>GB02- Tuesday, Dec 6<sup>th</sup></b>	

○	<p><b>Sustainable Sites, Ecology &amp; Land-use</b>            Overview of what constitutes sustainable sites (including criteria in BREEAM &amp; LEED) &amp; measures to reduce site water pollution. Overview of how to protect &amp; enhance the ecological value of a site and its biodiversity.            Introduction to the different types of green roofs &amp; their various benefits.</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
GB05-Wednesday , Dec7 <sup>th</sup>		
○	<p><b>Introduction to Renewable Energies</b>            Overview of renewable energy technologies / solutions suitable to the Mediterranean and hot climates (solar water heating, photovoltaics, building integrated photovoltaics, solar thermal heating, solar thermal cooling, wind power, geothermal energy and ground-source heat pump, CHP, tri-generation and energy waste recovery).</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
GB06- Thursday,Dec 8 <sup>th</sup>		
○	<p><b>Bio-climatic Design in warm / hot countries- Part I &amp; II</b>            Basic design principles of bioclimatic houses in warm/hot countries. The importance of insulation, air tightness, reducing the heat island effect, balance between natural daylighting and overheating, choice of glazing, shading devices, and usage of green roofs.            Overview of natural ventilation &amp; cross-ventilation and various different passive ventilations techniques, including solar chimneys, wind towers, and provincial wells.</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
GB03 - Tuesday, Dec 13 <sup>th</sup>		
○	<p><b>Energy-Efficiency - HVAC systems</b>            Overview of energy-efficiency technologies / solutions suitable to hot climates, building services HVAC systems control and low-energy cooling, mechanical ventilation with heat recovery, low-environmental impact cooling, choice of refrigerants and refrigerant leak detection systems, sub-metering and BMS, thermal comfort, thermal zoning and controls, and commissioning.</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○
GB09 - Wednesday, Dec14 <sup>th</sup>		
○	<p><b>Introduction to Water Conservation in Buildings</b>            Importance of water conservation: Choice of water-efficient devices and fixtures, introduction to rainwater collection in buildings, grey-water recycling for usage in buildings or irrigation, low-water irrigation &amp; landscaping.</p> <p><i>Click <a href="#">here</a> for the full seminar details.</i></p>	○

GB04 - Thursday, Dec 15 <sup>th</sup>		
○	<b>Energy-Efficiency - Lighting</b> Overview of the performance characteristics of lighting systems, different types of lighting, lighting controls, light pollution and guidelines for a good lighting design that reduces energy consumption and light pollution.	○
○	<b>Thermal Modelling&amp; Case Studies</b> A full dynamic 3D model of different case studies - including the objectives of the analysis, modelling procedure, results, and conclusions.  <i>Click <a href="#">here</a> for the full seminar details.</i>	○
GB10 - Tuesday, Dec 20 <sup>th</sup>		
○	<b>Green Buildings Case Studies</b> IC Elementary School & M1 Headquarters & Casa Batroun First projects in Lebanon to achieve respectively the <i>LEED Gold; LEED Platinum; and BREEAM Excellent certificates</i> ; presentation includes each of the new buildings' green features (from each credit category within LEED or BREEAM).  <i>Click <a href="#">here</a> and <a href="#">here</a> for the full seminar details.</i>	○
GB11&GB12 - Wednesday, Dec 21 <sup>st</sup> &Thursday, Dec 22 <sup>th</sup>		
○	<b>LEED Green Associate (GA) exam preparation - PART I</b> <b>Overview of LEED, the USGBC, and GBCI</b> LEED GA specific exam preparation (overview of the LEED GA exam structure, hints on what to pay attention at, sample exam questions, online resources useful to prepare the exam)	○
○	<b>LEED Green Associate (GA) exam preparation - PART II</b> <b>LEED Green Associate Mock Exam</b> LEED GA specific mock exam questions & review of the correct answers  <i>Click <a href="#">here</a> for the full seminar details.</i>	○

## *Pricing*

### **Current fees**

- \*For Employed / Self-Employed: \$240 USD
- \* For Students / Unemployed / NGOs: \$150 USD

### **Financial Support and Scholarships**

If you are unable to currently afford the registration fees, please email us with how much you are able to pay for such a training. We will provide additional financial support with a few limited scholarships.

## *Registration & Practical Info*

- \* All Circular Hub webinars will be hosted online through Microsoft Teams; we will provide you with login instructions.
- \* All seminars & workshops start at 5:30 pm, and last approximately 2 hours each.
- \* Payment options are by Cash or OMT; further details will be given upon registration.
- \* To book or for more information, please contact EcoConsulting at [info@ecoconsulting.net](mailto:info@ecoconsulting.net) or via WhatsApp at +961 71 384 767.

Follow us on Facebook, Instagram & LinkedIn (by clicking all the below icons) to receive up-to-date information about all our events.

Thank you for spreading the word about the Circular Hub to anyone who may be interested around you!

