

## Tentative Training Calendar and Agenda

Name of the Training Agency	Design2Occupancy Services LLP
Zone	ZONE 3 1. Malappuram 2. Kozhikkode 3. Wayanadu 4. Kannur 5. Kasaragod
Name of the Contact Persons	Mr. AnjubP   Mr. Anuj Gupta
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### **Training Calendar**

#### **Training A**

<b>Batch</b>	<b>Date</b>
Batch 1	Starting date (11/10/2021) to end date (24/10/2021)
Batch 2	Will be confirmed after the starting of first batch

#### **Training B**

<b>Batch</b>	<b>Date</b>
Batch 1	Starting date (29/10/2021) to end date (30/10/2021)
Batch 2	Will be confirmed after the starting of first batch

**Annexure A****Calendar & Agenda for Training A****TRAINING - A (Batch - I)****'Online Certificate Course on ECBC Compliance Check through Energy Simulation'**

<b>Day</b>	<b>Date</b>	<b>Time</b>	<b>Agenda</b>
1	11-Oct-21	07:00 PM - 07:30 PM	Introduction Session ECBC- A Brief on ECBC and Kerala State ECBC Rules 2017
		07:30 PM - 08:30 PM	Understanding Building Physics
		08:30 PM - 09:30 PM	Introduction on ECBC & Compliance Approach - Mandatory Requirements - Prescriptive Approach - Whole Building Performance Approach
2	12-Oct-21	07:00 PM - 08:00 PM	Case Study ECBC Compliant Building with Cost Analysis
		08:00 PM - 08:30 PM	Technical Aspects of ECBC
		08:30 PM - 09:30 PM	Building Physics, U-Value Calculation
3	13-Oct-21	07:00 PM - 08:00 PM	Building Design, Form, Zoning & Orientation Optimization
		08:00 PM - 09:00 PM	Daylighting Analysis - Shading, Daylighting, Glass Selection
		09:00 PM - 09:30 PM	Case Study – Presentation
4	14-Oct-21	07:00 PM - 08:00 PM	Introduction to Energy Modelling
		08:00 PM - 09:00 PM	Demonstrations on Tools Interface
		09:00 PM - 09:30 PM	Presentation of Case Study
5	16-Oct-21	07:00 PM - 08:30 PM	Hands-on Training for Sample Energy Model: Building Geometry Development
		08:30 PM - 09:30 PM	Optimization of Building Envelope
6	18-Oct-21	07:00 PM - 08:00 PM	HVAC System Sizing
		08:00 PM - 09:00 PM	Modelling of Different Systems
		09:00 PM - 09:30 PM	Simulation of Developed Mode
7	19-Oct-21	07:00 PM - 08:30 PM	Simulation-Output Analysis
		08:30 PM - 09:30 PM	Hands-on Training Exercise Problem Base case modelling as per KSECBC Rules (ECBC 2007 Guide) – Notified in the State

8	20-Oct-21	07:00 PM - 08:30 PM	Hands-on Training Exercise Problem Proposed Case modelling as per KSECBC Rules (ECBC 2007 Guide) – Notified in the State
		08:00 PM - 09:30 PM	Hands-on Training- Exercise Problem EPI evaluation and comparison of Base Case and Proposed Case Models-(Specific Building Type from the Code)
9	24-Oct-21	10:00 AM – 11:00 AM	ECBC Examination for Participants - Multiple Choice Questions type.
		11:00 AM – 04:30 PM	Simulation Examination for a sample energy model of typical building type– With the Building Descriptions shared with participants

**Annexure B**

**Calendar & Agenda for Training B**

**TRAINING - B (Batch - I)**  
**'Intensive Training on ECBC Compliance Check'**

Day	Date	Time	Module	Agenda
1	29/10/2021	09:30 AM - 06:00 PM	<p align="center"><b>Module 01</b></p> <p>ECBC Awareness &amp; Overview (1.5 hours)</p>	<ul style="list-style-type: none"> <li>• Orientation &amp; Induction Program</li> <li>• World Energy Scenario &amp; Energy Scenario in India</li> <li>• About ECO-III Project, Milestones, EC Act</li> <li>• Introduction to ECBC</li> <li>• Impact of ECBC Compliance</li> </ul>
			<p align="center"><b>Module 02</b></p> <p>ECBC Scope &amp; Administration (1.5 hours)</p>	<ul style="list-style-type: none"> <li>• ECBC Scope and Applicability</li> <li>• ECBC Compliance approach KSECBC Rules 2017</li> <li>• ECBC Compliance Process in Kerala</li> <li>• Administration and Enforcement</li> <li>• ECBC Documents in force</li> <li>• Assignment: ECBC Compliance Check Building Permit Documentation</li> </ul>
			<p align="center"><b>Module 03</b></p> <p>Envelope Design Considerations (1.5 hours)</p>	<ul style="list-style-type: none"> <li>• Design &amp; details of opaque construction, Fenestration, Shading device, cool roofs</li> <li>• Heat transfer principles - Material Properties - Moisture &amp; Infiltration – Design methods Calculations</li> <li>• Code requirements – Mandatory &amp; Prescriptive- ECBC Compliance forms</li> <li>• Assignment: Calculation of thermal property of Construction materials /U- Value calculation for a sample building</li> </ul>
			<p align="center"><b>Module 04</b></p> <p>Heating Ventilation &amp; Air-Conditioning – basics ECBC (2 hour)</p>	<ul style="list-style-type: none"> <li>• Whole building design approach and role of HVAC</li> <li>• Refrigerative cooling, system types and details</li> <li>• HVAC System components &amp; Efficiency</li> <li>• Cooling load reduction</li> <li>• System Balancing &amp; Building</li> <li>• Commissioning overview</li> <li>• Assignment: HVAC modelling in Simulation tool for a sample system</li> </ul>
			<p align="center"><b>Module 05</b></p> <p>Lighting Basics (1.5 hour)</p>	<ul style="list-style-type: none"> <li>• Lighting Principles, Light Quality optimisation</li> <li>• Energy Efficient Lighting Systems</li> <li>• Lighting control design, BAM, SFM</li> <li>• Whole building approach, Concept of LPD</li> <li>• Mandatory &amp; Prescriptive -ECBC Compliance forms</li> <li>• Assignment: LPD calculations (Manual and Simulation tool based)</li> </ul>

2	30/10/2021	09:30 AM - 06:00 PM	<p><b>Module 06</b></p> <p>Daylighting Analysis (1.5 hour)</p>	<ul style="list-style-type: none"> <li>• Significance of Daylighting Analysis, DEF, Surface Reflectance, UDI Code Requirements</li> <li>• Daylighting Analysis Simulation Method</li> <li>• Assignment: Daylighting factor calculation (based on Prescribed ECBC Methods)</li> </ul>
			<p><b>Module 07</b></p> <p>Electrical Power &amp; Service Hot Water &amp; Pumping - Basic (1.5 hours)</p>	<ul style="list-style-type: none"> <li>• Power Distribution, Transformers, Electric Motors Types- selection criteria- Sizing Losses- PF &amp; PFC- Efficiency</li> <li>• Mandatory &amp; Prescriptive- ECBC Compliance forms</li> <li>• Types of water heaters - Source type and system details</li> <li>• Solar water heater sizing- Efficiency- Supplementary water heating</li> <li>• Energy loss- piping Insulation- heat traps</li> <li>• Mandatory &amp; Prescriptive- ECBC Compliance forms</li> <li>• Assignment: Modelling Service hot water systems in simulation tool (for a sample building)</li> </ul>
			<p><b>Module 08</b></p> <p>Hands-on Compliance (1.5 hours)</p>	<ul style="list-style-type: none"> <li>• Prescriptive requirements</li> <li>• Trade- off compliance</li> <li>• Assignment: Prescriptive analysis method for a hypothetical project</li> </ul>
			<p><b>Module 09</b></p> <p>Hands-on Compliance Check (2.5 hours)</p>	<ul style="list-style-type: none"> <li>• Whole Building Performance using software</li> <li>• Assignment: Whole building analysis method for a sample project</li> </ul>
			<p><b>Module 10</b></p> <p>Report Generation &amp; Assessments (1 hour)</p>	<ul style="list-style-type: none"> <li>• Guidance on Report Generation as per the ECBC</li> <li>• Assessment on ECBC Compliance</li> <li>• Assignment: Report generation for a Pre-modelled sample project</li> </ul>

# Register yourself today!

## Important links to follow;

### Training A: Building Energy Simulation Experts

For Professionals - <https://lnkd.in/gBdbb7x>

For Students - <https://lnkd.in/gXWUhrh6>

### Training B: Provisional Building Energy Efficiency Experts (BEEE) & Building Energy Efficiency Experts (BEEE)

<https://lnkd.in/gGSEjAKm>

**For more details related to Training A, B & Empanelment Process, please refer to this document**

<https://lnkd.in/eHfQv-QN>

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