Training calendar and Agenda

Name of the training agency	Ela Green Building Consultants
Zone	2
Name of the contact person	Abel Mathews
Contact number	+91-8861889451
Email id	abel.mathews@elagreenconsultants.com

Training Calendar

Training A

Batch	Date
Batch 1	20-09-2021 to 25-09-2021 Morning Batch
Batch 2	20-09-2021 to 26-09-2021 Evening Batch
Batch 3	27-09-2021 to 04-10-2021 Morning Batch
Batch 4	04-10-2021 to 09-10-2021 Morning Batch
Batch 5	04-10-2021 to 10-10-2021 Evening Batch
Batch 6	18-10-2021 to 23-10-2021 Morning Batch
Batch 7	18-10-2021 to 24-10-2021 Evening Batch
Batch 8	25-10-2021 to 31-10-2021 Evening Batch
Batch 9	01-11-2021 to 08-11-2021 Morning Batch
Batch 10	08-11-2021 to 13-11-2021 Morning Batch
Batch 11	08-11-2021 to 14-11-2021 Evening Batch
Batch 12	15-11-2021 to 21-11-2021 Evening batch
Batch 13	22-11-2021 to 27-11-2021 Morning Batch
Batch 14	22-11-2021 to 28-11-2021 Morning Batch

Training B

Batch	Date
Batch 1	12-10-2021 to 17-10-2021 Evening Batch
Batch 2	15-11-2021 to 18-11-2021 Morning Batch

Annexure

(Attach the detailed training calendar and agenda as annexure)

TENTATIVE AGENDA

TRAINING A - 6 DAYS PROGRAM

		C compliance check through EnergySimulation			
Timing	Session no.	Session title	Duration(mins)	Hrs	Total Hrs
DAY 1					
10.00 - 10.15	1.1	Participants Confirmation	15	0.25	
10.15 - 10.30		Introduction speech	15	0.25	
10.30 - 10.45		Key note address	15	0.25	
10.45 - 11.15		ECBC- A Brief on ECBC and Kerala State ECBC Rules 2017	30	0.5	
11.15 - 12.15			60	1	
11.15 - 12.15	1.5	Understanding Building Physics	80	ļ	
		Introduction on ECBC &Compliance Approach			4
15.00 - 15.45	2.1	Mandatory Requirements	45	0.75	
		Prescriptive Approach			
		Whole Building Performance Approach			
15.45 - 17.00	2.2	Case Study ECBC Compliant Building with Cost	60	1	
15.45 - 17.00	2.2	Analysis	00	I	
DAY 2					
10.00 - 10.15	3.1	Participants Confirmation	15	0.25	
10.15 - 10.45		Technical Aspects of ECBC	30	0.5	
10.45- 11.30		Building Physics, U-Value Calculation	45	0.75	
10.43 11.50	3.3	Building Design, Form, Zoning & Orientation	73	0.73	
11 20 12 15	3.4		45	0.75	4
11.30 - 12.15		Optimization		0.75	
15.00 - 16.00	4.1	Daylighting Analysis - Shading, Daylighting,	60	1	
		Glass Selection			
16.00 - 16.45	4.2	Case Study – Presentation	45	0.75	
DAY 3					
10.00 - 10.15	5.1	Participants Confirmation	15	0.25	
10.15 - 11.00	5.2	Introduction to Energy Modelling	45	0.75	
11.00 - 11.45	5.3	Demonstrations on Tools Interface	45	0.75	
11.45 - 12.15		Presentation of Case Study	30	0.5	
		Hands-on Training for Sample Energy Model:			4.75
15.00 - 16.30	6.1	Building Geometry Development	90	1.5	
		Optimization of Building Envelope (Zoning,	+		
1620 1720	6.3	· · · · · · · · · · · · · · · · · · ·		1	
16.30 - 17.30	6.2	Insulation, Shading Devices, and their Impact on Building	60	1	
		Energy-Load Calculation)			
DAY 4					
10.00 - 10.15		Participants Confirmation	15	0.25	
10.15 - 11.00		HVAC System Sizing	45	0.75	
11.00 - 12.00	7.3	Modelling of Different Systems	60	1	4
12.00 - 12.30	8.1	Simulation of Developed Model	30	0.5	
15.00 - 16.30	8.2	Simulation-Output Analysis	90	1.5	
DAY 5					
10.00 - 10.15	9.1	Participants Confirmation	15	0.25	
		Hands-on Training Exercise Problem		0.23	
10.15 - 11.45	0.2	Base case modelling as per KSECBC Rules	90		
10.15 - 11.45	9.2	j .] 90	1.5	
		(ECBC 2007 Guide) – Notified in the State	+	1.5	
		Hands-on Training Exercise Problem Proposed			
11.45 - 13.15	9.3	Case as per Sample Exercise Shared	90		4.75
	3.3	Proposed Case Modelling as per the exercise			
		given.		1.5	
		Hands-on Training- Exercise Problem			
		EPI evaluation and comparison of Base Case and			
15.00 - 16.30		Proposed Case Models-(Specific Building Type from	90	1.5	
		the Code)			
DAY 6					
		EXAMINATION			
			+		\dashv
9.30 - 10.30	1	ECBC Examination for Participants – Multiple Choice	60	4	1
	·	Questions type.	1	1	6
		Simulation Examination for a sample energy model			
11 00 17 00	2	of typical building type– With the Building	300	5	
11.00 - 17.00		,	1		ſ
11.00 - 17.00		Descriptions shared with participants	<u> </u>		
11.00 - 17.00		Descriptions shared with participants Total course duration			27.50

Timing	Co:	Consism sists	Donation ())	٦
DAY 1	Session no.	Session title	Duration(mins)	
0.00 - 10.15		Participants Confirmation	15	
0.15 - 10.30 1.00 - 12.00	Module 1	Introduction speech ECBC Awareness & Overview	15	TENTATIVE AGENDA TRAINING B - 4 DAYS PROGRAM
1.00 12.00	Wodule 1	World Energy Scenario & Energy scenario in India	15	Intensive training on ECBC compliance of
		About ECO-III Project, Milestones, EC Act,	10	
		Introduction to ECBC Impact of ECBC Compliance	15 10	4
		Q & A Session	10	1
2.00 - 13.10	Module 2	ECBC Scope & Administration		
		ECBC Scope, Applicability	10	
		ECBC Compliance approach KSECBC Rules 2017 ECBC Compliance Process in Kerala	10 15	-
		Administration and Enforcement	10	
		ECBC Documents in force	15	
		Q & A Session Assignment: ECBC Compliance check building permit	10	4
		documentation		
4.10 -15.40	Module 3	Envelope Design Considerations		
		Design & details of opaque construction, Fenestration, Shading	30	
		devise, cool roofs		
		Heat transfer principles - Material Properties - Moisture &	30	
		Infiltration – Design methods Calculations	30	
		Code requirements – Mandatory & Prescriptive- ECBC	15	
		Compliance forms		
		Q & A Session Assignment: Calculation of thermal property of Construction	15	-
		materials /U-Value		
0.45 - 11.00		Participants Confirmation	15	
U.II CF.			13	1
1.00 - 13.00	Module 4	Heating Ventilation & Air-Conditioning – basics ECBC		
		Whole building design approach and role of HVAC	15	_
		Refrigerative cooling, system types and details HVAC System components & Efficiency	25 25	-
		Cooling load reduction	15	
		System Balancing & Building Commissioning overview	10	_
		Mandatory & Prescriptive- ECBC Compliance forms Q & A Session	15 15	-
		Assignment: HVAC modelling in Simulation tool for a sample	· ·	
4.00 15.30		system		
4.00 - 15.30	Module 5	Lighting Basics Lighting Principles, Light Quality optimisation	20	_
		Energy Efficient Lighting Systems	15	
		Lighting control design, BAM, SFM	15	
		Whole building approach, Concept of LPD Mandatory & Prescriptive -ECBC Compliance forms	10 15	-
		Q & A Session	15	
		Assignment: LPD calculations (Manual and Simulation tool		
AY 3		based)		
0.45 - 11.00		Participants Confirmation	15	
1.00 - 12.30	Module 6	Daylighting Analysis		
		Significance of Daylighting Analysis, DEF, Surface Reflectance,	20	
		UDI Code Requirements		_
		Daylighting Analysis Simulation Method Q & A Session	55 15	-
		Assignment: Daylighting factor calculation (based on Prescribed		
		ECBC Methods)		
2.30 - 13.10	Module 7	Power Distribution, Transformers, Electric Motors	10	
		Types- selection criteria- Sizing	10	
		Losses- PF & PFC- Efficiency	10	
4.10 - 15.00		Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics	10	-
7.10 - 13.00		Types of water heaters - Source type and system details	10	1
		Solar water heater sizing- Efficiency- Supplementary water		
		heating	10	
		Energy loss- piping Insulation- heat traps	10	
		Mandatory & Prescriptive- ECBC Compliance forms	10	4
		Q & A Session Assignment: Modelling Service hot water systems in simulation	10	-
		tool (for a sample		
F 00 16 20	D. A	building)		
5.00- 16.30	Module 8	Hands-on Compliance Check Prescriptive requirements	50	-
		Trade- off compliance	30	
		Q & A Session	15	4
		Assignment: Prescriptive analysis method for a hypothetical project		
AY 4				
9.45 - 10.00	Madala	Participants Confirmation	15	4
0.00 - 13.25	Module 9	Hands-on Compliance Check Whole Building Performance using software	150	-
		Q & A Session	60	
		Assignment: Whole building analysis method for a sample		
4.30 - 15.30	Module 10	project Report Generation &Assessments		-
		Guidance on Report Generation as per the ECBC	30	
		Assessment on ECBC Compliance	30	4
		Assignment: Report generation for a Pre-modelled sample project.		
	1		060 1	Ⅎ
		Total Course Duration	960 hrs	₫

TENTATIVE AGENDA - Working Professionals

TRAINING A - 7 DAYS PROGRAM

Online Certifica		C compliance check through EnergySimulation			
Timing	Session no.	Session title	Duration(mins)	Hrs	Total Hrs
DAY 1	Jession no.	Session title	Duration(illins)	1113	
16.30 - 16.45	11	Participants Confirmation	15	0.25	
16.45 - 17.00		Introduction speech	15	0.25	
17.00 - 17.30		ECBC- A Brief on ECBC and Kerala State ECBC Rules 2017	30	0.5	
17.30 - 18.30		Understanding Building Physics	60	1	
17.50 10.50	1.2	Introduction on ECBC &Compliance Approach	- 00		
		Mandatory Requirements			3.75
	2	Prescriptive Approach	45		
19.15 - 20.00		Whole Building Performance Approach		0.75	
13.13 20.00		Case Study ECBC Compliant Building with Cost		0.13	
20.00 - 21.00	2.2	Analysis	60	1	
DAY 2		Arialysis		ı	
16.30 - 16.45	2.1	Participants Confirmation	15	0.25	
16.45 - 17.15		Technical Aspects of ECBC	30	0.5	
17.15 - 18.00		Building Physics, U-Value Calculation	45	0.75	
17.13 - 10.00		Building Design, Form, Zoning & Orientation	43	0.73	
18.00 - 18.45	3.34	Optimization	45	0.75	3.75
16.00 - 16.43	+	Daylighting Analysis - Shading, Daylighting,	+	0.73	_
19.30 - 20.30	4.1	Glass Selection	60	1	
20.30 - 21.00	12	Case Study – Presentation	30	0.5	_
DAY 3	4.2	Case Study – Presentation	30	0.3	
16.30 - 16.45	F 1	Destinius ante Confirmentia a	15	0.25	
16.45 - 17.30		Participants Confirmation	45	0.25	
17.30 - 18.15		Introduction to Energy Modelling Demonstrations on Tools Interface	45	0.75	
18.15 - 18.45		Presentation of Case Study		0.75	3.75
10.15 - 10.45	5.4	Hands-on Training for Sample Energy Model:	30	0.5	
19.30 - 21.00	6.1		90	1.5	
DAY 4		Building Geometry Development		1.5	
	7.1	Destinius esta Confirmation	15	0.25	
16.30 - 16.45	7.1	Participants Confirmation	15	0.25	
16.45 17.20	7.0	Optimization of Building Envelope (Zoning,	45		
16.45 - 17.30	1.2	Insulation, Shading Devices, and their Impact on Building	45	0.75	2.25
17.20 10.15		Energy-Load Calculation)	45	0.75	3.25
17.30 - 18.15		HVAC System Sizing	45	0.75	
19.15 - 20.15		Modelling of Different Systems	60	1	
20.15 - 20.45 DAY 5	8.2	Simulation of Developed Model	30	0.5	
	0.1		45	0.25	
16.30 - 16.45		Participants Confirmation	15	0.25	
16.45 - 18.15	9.2	Simulation-Output Analysis	90	1.5	2.25
	101	Hands-on Training Exercise Problem			3.25
10.45 00.45	10.1	Base case modelling as per KSECBC Rules	90	4.5	
19.15 - 20.45		(ECBC 2007 Guide) – Notified in the State		1.5	
DAY 6	44.4		45	0.25	
16.30 - 16.45		Participants Confirmation	15	0.25	
		Hands-on Training Exercise Problem Proposed			
16.45 - 18.15	11.2	Case as per Sample Exercise Shared	90		
		Proposed Case Modelling as per the exercise			
		given.		1.5	3.25
		Hands-on Training- Exercise Problem			
19.15 - 20.45	12.1	EPI evaluation and comparison of Base Case and	90		
		Proposed Case Models-(Specific Building Type from			
		the Code)		1.5	
DAY 7	Sunday				
	+	EXAMINATION			
<u></u>	1	ECBC Examination for Participants – Multiple Choice	60		
9.30 - 10.30	<u> </u>	Questions type.		1	- 6
		Simulation Examination for a sample energy model			
	2	of typical building type– With the Building	300		
11.00 - 17.00	1	Descriptions shared with participants		5	
1	Total course				27.00
i	duration		1		1

TENTATIVE AGENDA - Working Professionals
TRAINING B - 4 DAYS PROGRAM
Intensive training on ECBC compliance check

DAY 1	Session no.	Session title	Duration(mins)
16.30 - 16.45		Participants Confirmation	15
16.45 - 17.00		Introduction speech	15
17.00 - 18.00	Module 1	World Energy Scenario & Energy scenario in India	15
		About ECO-III Project, Milestones, EC Act,	10
		Introduction to ECBC	15
		Impact of ECBC Compliance	10
18.30 - 19.40	Module 2	Q & A Session ECBC Scope & Administration	10
10.30 - 13.40	Module 2	ECBC Scope, Applicability	10
		ECBC Compliance approach KSECBC Rules 2017	10
		ECBC Compliance Process in Kerala	15
		Administration and Enforcement	10
		ECBC Documents in force Q & A Session	15 10
		Assignment: ECBC Compliance check building permit	10
		documentation	
19.40 - 21.10	Module 3	Envelope Design Considerations	
		Design & details of opaque construction, Fenestration, Shading devise, cool roofs	30
		Heat transfer principles - Material Properties - Moisture & Infiltration – Design methods Calculations	30
		Code requirements – Mandatory & Prescriptive- ECBC Compliance forms	15
	1	Q & A Session	15
		Assignment: Calculation of thermal property of Construction	
		materials /U-Value	
DAY 2		calculation for a sample building	
16.30 - 16.45		Participants Confirmation	15
16.45 - 18.00	Module 4	Heating Ventilation & Air-Conditioning – basics ECBC	
		Whole building design approach and role of HVAC	15
		Refrigerative cooling, system types and details	25
	1	HVAC System components & Efficiency Cooling load reduction	25 15
18.30 - 19.15		System Balancing & Building Commissioning overview	15
10.50		Mandatory & Prescriptive- ECBC Compliance forms	15
		Q & A Session	15
		Assignment: HVAC modelling in Simulation tool for a sample	
19.15 - 20.45	0.0 - 1.1 - 5	system	
19.15 - 20.45	Module 5	Lighting Basics Lighting Principles, Light Quality optimisation	20
		Energy Efficient Lighting Systems	15
		Lighting control design, BAM, SFM	15
		Whole building approach, Concept of LPD	10
		Mandatory & Prescriptive -ECBC Compliance forms	15
		Q & A Session Assignment: LPD calculations (Manual and Simulation tool based)	15
DAY 3		puscu)	
16.30 - 16.45		Participants Confirmation	15
16.45 - 18.00	Module 6	Daylighting Analysis Significance of Daylighting Analysis, DEF, Surface Reflectance,	20
		UDI Code Requirements	20
		Daylighting Analysis Simulation Method	55
		Q & A Session	15
18.30 - 18.45		Assignment: Daylighting factor calculation (based on Prescribed	
18.45 - 20.15	Module 7	ECBC Methods) Electrical Power	
	oudic /		
10.45 - 20.15		Power Distribution, Transformers, Electric Motors	10
10.43 - 20.13		Types- selection criteria- Sizing	10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency	10 10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms	10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics	10 10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details	10 10 10
10.49 - 20.19		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water	10 10 10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating	10 10 10 10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps	10 10 10 10 10
10.43 - 20.13		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating	10 10 10 10
10.45 - 20.15		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms	10 10 10 10 10 10
10.45 - 20.15		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample	10 10 10 10 10 10
		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building)	10 10 10 10 10 10
	Module 8	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check	10 10 10 10 10 10 10 10
	Module 8	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building)	10 10 10 10 10 10
	Module 8	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements	10 10 10 10 10 10 10 10 10
	Module 8	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical	10 10 10 10 10 10 10 10 10 50 30
20.15 - 21.15		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session	10 10 10 10 10 10 10 10 10 50 30
20.15 - 21.15 DAY 4	Sunday	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project	10 10 10 10 10 10 10 10 10 50 30
20.15 - 21.15 DAY 4		Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project Hands-on Compliance Check	10 10 10 10 10 10 10 10 10 10 15
20.15 - 21.15 DAY 4	Sunday	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project	10 10 10 10 10 10 10 10 10 50 30
20.15 - 21.15 DAY 4	Sunday	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project Hands-on Compliance Check Whole Building Performance using software	10 10 10 10 10 10 10 10 10 10 15
20.15 - 21.15 DAY 4 10.00 - 13.25	Sunday Module 9	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project Hands-on Compliance Check Whole Building Performance using software Q & A Session Assignment: Whole building analysis method for a sample project	10 10 10 10 10 10 10 10 10 10 15
20.15 - 21.15 DAY 4 10.00 - 13.25	Sunday	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project Hands-on Compliance Check Whole Building Performance using software Q & A Session Assignment: Whole building analysis method for a sample project Report Generation &Assessments	10 10 10 10 10 10 10 10 10 10 10 15 50 30 15
20.15 - 21.15 DAY 4 10.00 - 13.25	Sunday Module 9	Types- selection criteria- Sizing Losses- PF & PFC- Efficiency Mandatory & Prescriptive- ECBC Compliance forms Service Hot Water & Pumping – basics Types of water heaters - Source type and system details Solar water heater sizing- Efficiency- Supplementary water heating Energy loss- piping Insulation- heat traps Mandatory & Prescriptive- ECBC Compliance forms Q & A Session Assignment: Modelling Service hot water systems in simulation tool (for a sample building) Hands-on Compliance Check Prescriptive requirements Trade- off compliance Q & A Session Assignment: Prescriptive analysis method for a hypothetical project Hands-on Compliance Check Whole Building Performance using software Q & A Session Assignment: Whole building analysis method for a sample project Report Generation &Assessments Guidance on Report Generation as per the ECBC	10 10 10 10 10 10 10 10 10 10 10 10 15 50 30 15
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