

Training Course Program

BUILDINGS ENVELOPES AND THEIR ROLE IN SAVING ENERGY

Training course Cost. 1500 LE

First Day: 28-5-2023

10:00 AM: 12:00 AM

Building envelope

- > Building envelope definition
- > weathering data file
- > climate regions.
- > Building envelopment requirements

Dr. Mahmoud Abd El-Razik

- > Building envelopment opaque parts
- > Physical properties of building envelopment
- > Thermal conductivity coefficient calculations and measurements
- > Thermal resistance estimation methods

Façade openings and shading calculations	
12:00 AM: 1:30 pM	
Building Acoustics.	
Visiting acoustic laboratory.	
Professor Huda Soliman - acoustic department HBRC	
Labs. visit	
Optical properties tests of glass	
Leakage and penetration tests of widows	
Thermal conductivity test.	
Second Day:29-5-2024	
10:00 AM: 12:00 AM	
Studying the physical and optical properties of glass	Dr. Mohamed Mahmoud
Optical properties	

- ➤ Instrumental assessment of optical properties
- > Solar heat gain coefficient calculations
- > Highly efficient glass produced from recycled materials
- > Solar reflection coefficient
- > Exploring the Physical and optical properties reports

12:30 PM: 2:30 PM

Evaluating the building façade performance

- ➤ Air leakage Dr. Mahmoud Mokhtar
- > Water penetration
- > Structural Performance
- > Comparison between standard test methods
- > Acceptance and rejection criteria

Dr. Mohamed Morsy