



AMERICAN  
UNIVERSITY  
OF BEIRUT



Shaping Tomorrow's  
Built Environment Today



Lebanese  
Chapter



GLOBAL TRAINING CENTER  
DUBAI

# ASHRAE GLOBAL TRAINING CENTER FOR BUILDING EXCELLENCE

Gain In-Depth, Practical Knowledge to Succeed



## DESIGNING TOWARD NET-ZERO ENERGY COMMERCIAL BUILDINGS (MENA)

3 PDH

ONLINE

**October 2, 2024**

**3:00–6:00 pm** (Beirut time)

Net zero energy buildings (NZEBs) are those which, on an annual basis, use no more energy from the utility grid than is provided by on-site renewable energy sources. These buildings use 50% to 70% less energy than comparable traditional buildings. The remaining energy use comes from renewable sources, like solar panels or wind turbines incorporated into the facility itself. The 3-hour course provides application knowledge of the design and operating principles for energy-efficient buildings and available technologies and systems to achieve NZEBs design.

Building design strategies; review of current policy and regulation, energy, environmental and economic assessment of building's performance; energy efficiency in HVAC, lighting, and appliances; and on-site renewable energy sources are topics covered.

### COURSE OBJECTIVES:

- Discuss Design Strategies to achieve NZEB
- Discuss Design Principles of Energy Efficient Buildings
- Describe Operating Principles of Energy Efficient Buildings
- Describe Energy, Environmental & Economic Assessment of Building's Performance

For more information:

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