

# ASHRAE Global Training Center for Building Excellence

Gain In-Depth, Practical Knowledge to Succeed



## DESIGNING TOWARD NET-ZERO ENERGY COMMERCIAL BUILDINGS (3-HOUR TRAINING)

ONLINE

October 19, 2022

11:00 am–2:00 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