Presentation Title: **How to Build a Zero Energy Ready Home**
Total Presentation time: 6 hours

This course provides participants with a comprehensive discovery of all elements of the Department of Energy Zero Energy Ready (ZER) Home program requirements and cost-effective pathways of how to meet those requirements. The course will cover the compelling trends towards high performance homes and the building science principles that support the move towards homes that will use, on average over the course of a year, only as much energy that could be produced by on-site renewable energy sources. Participants in this class will learn design principles, equipment options, emerging technologies, material selections, and construction practices that can be integrated into their building process. Case studies will be used throughout to demonstrate builders' successes with ZER homes. Strong emphasis is placed on ways to make the final product affordable for homebuyers. To this end, a wide range of alternatives that can be applied to specific climate zones and housing types will be demonstrated so that builders and designers can choose solutions that meet their market needs.

Completion of this course and the associated exam will qualify participants for the EEBA Zero Energy Building Professional Designation. This advanced recognition builds on the EEBA High Performance Builder Designation.

Learning objectives:

- Learn the trends and building science principles that are driving the U.S. housing market toward zero energy homes.
- Be able to identify and understand the specific requirements to qualify a Zero Energy Ready Home (ZER) under the DOE program.
- Identify buildings materials, systems and processes that can be used to meet the ZER requirements in a cost-effective way.
- Learn about incentives, marketing and sales messages that can help promote ZER homes for builders.