

Training Preview: 'Top 10 Best Practices for Today's Homebuilder'

1. Design for Efficiency

- □ Code
- □ *Good:* Continuous thermal boundary
- □ Better: Add right sizing design & systems
- □ *Best:* Add optimization with energy modeling

2. Superior Air Sealing

- □ *Good:* Air Sealing (basic caulking and foaming)
- □ *Code/Better:* Fully continuous air barrier + blower door test (advanced caulking and foaming)
- □ *Best:* Exterior sheathing sealed (fluid applied, taped or glued sheathing)

3. High Performance Wall Systems

- □ Code
- □ Good: Intermediate or advanced framing with blown-in insulation
- □ *Better:* Single plate with staggered studs + blown (\leq R-27)
- Better: 2x6 with exterior continuous insulation
- Best: R-27 + Insulated sheathing or double stud with blown-in insulation

4. High R-Value Ceilings

- □ Code
- □ *Good:* Standard truss, R-21 high density batts or rigid insulation + 1" vent channel at eaves
- Better: Raised heel truss, parallel chord cantilevered truss
- □ *Best:* True vaulted ceiling (I-joist)
- □ *Best:* Insulated roof above attic

5. Windows

- □ Code
- □ Good: Proper U-Value and Solar Heat Gain Coefficient (SHGC) for applications
- □ *Better:* Window design (avoid too much glazing)
- Best: Daylighting + high performance low U-Value

6. Ducts and Distribution

- □ *Good:* Seal ducts with mastic
- □ Code/Better: Seal ducts with mastic and test
- Best: Ducts inside
- Best: Ductless HVAC system

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7. Fresh Air Ventilation

- □ *Code/Good:* Exhaust only
- □ *Code/Better:* Supply + exhaust (w/ ECM blower motor)
- □ *Code/Best:* Heat Recovery Ventilator (HRV) or Energy Recovery Ventilator (ERV)

8. Lighting and Appliances

- □ Code
- □ *Good:* Energy Star appliances
- □ *Better:* Add heat pump dryer
- □ *Best:* Add induction cooktop

9. Mechanical Systems

- Code
- □ *Good:* High-efficiency ducted heat pump
- □ *Good:* Condensing gas furnace
- □ *Better:* Ductless heat pump (DHP)
- □ *Better:* Highest efficiency condensing gas furnace
- □ *Better:* Inverter driven ducted heat pump
- □ *Best:* Add heat pump water heater
- □ Best: Condensing tankless gas water heater

10. Solar Energy

- □ None
- □ Good: PV Solar and Electric Vehicle Ready
- □ *Better:* Zero Energy (or ZE Ready)
- □ *Best:* Positive Energy with Electric Vehicle