

Energy Efficiency, Weatherization and Conservation Training



Energy Conservation

Day 1

- Overview of course
- Energy Basics
- Cost Saving
- Energy Audits – blower doors and infrared
- Lighting – LED, Light tubes
- Heating
- Cooling
- Stack effect for ventilation
- Insulation
- Windows

Day 2

- Methodology
 - Community living
 - Gardens (food)
 - Resources (Habitat Stores)
 - Recycle
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Day 3

- Angle of the Sun
- Solar PV
- Evacuated tube
- Solar Thermal (hot water)
- Solar Thermal (solar wall)
- Wind
- Hydro
- Net metering
- New technologies
- Passive solar (annual)

Day 4

- Green roofs
- Drainage
- Heat Island Effect
- Indoor Air Quality
- Transportation
- Site selection
- Density
- Carbon footprint
- CO2 greenhouse gases

Day 5

- Green building
- Straw bale house
- Rammed earth house
- Earthships
- Underground house
- Sip house
- Cob houses