DAY ONE

Introduction to Green Building (1 hr)

• What is a Green Home
• Housing & Sustainability
• Green Building Trends & Trajectory

5 Pillars of Green Building (1.5 hrs)

• Health
  Activity: Indoor Air Quality Improvement Opportunities
• Materials
• Water
• Land
• Energy
  Activity: Blower Door Test and Infrared Camera

Building Science (1 hr)

• The House as a System
  Activity: Pressure Differentials with Table Top House Model
• Thermodynamics (Convection, Conduction, Radiation)
• Problem Scenarios

Energy Trust of Oregon: Energy Efficiency in Green Construction (1.5 hrs)

• About Energy Trust
• What is EPS?
• Energy Efficiency in Green Construction
• Energy Efficiency & The Building Envelope
  Activity: Identifying Air & Thermal Boundaries on Plan Sets
• Green Construction Market

Earth Advantage New Home Site Tour (1 hr + 1 hr or less for travel both ways)

  Activity: Site Visit Worksheet
  Activity: Blower Door &/or Duct Leakage Testing (optional)
DAY TWO

Intro & Day 1 Recap (.5 hrs)

- Green Careers in Building Trades (1.5 hrs)
- Professions, Relevant Credentials & Trainings
  
  Activity: Consideration of Green Building Careers

Home Retrofit & Weatherization (1.5 hr)

- Energy Assessments
  
  Activity: Code vs Advanced Wall Mockups
- Cash Incentives & Loan Programs

Energy Efficiency in Older Homes (2 hrs)

- Home Air Sealing & Insulation
- Duct Sealing
  
  Activity: Duct Sealing & Testing
- Water Heating
- Space Heating & Air Conditioning
  
  Activity: 1952 Home Upgrade Options
- Indoor Air Quality
  
  Activity: Primary Green Home Features & Benefits
- Conclusion
  
  Key Resources

Green Building Trainee’ Designation Quiz (1.5 hrs)

- Review
  
  Activity: Green Jeopardy
- Exam