



Building Performance SOLUTIONS

building science training, consulting and performance testing services

Building Performance Solutions, Inc. develops and delivers technical training seminars, provides design/specification reviews at all stages of projects, and offers a wide array of onsite training, inspections, and diagnostic field testing services. Our experience with hi-performance home building is based upon years of technical and practical experience. BPS has worked with numerous developers, builders, programs, and municipalities in Colorado as well as throughout the United States. We have extensive experience with many green and high performance building programs such as; Energy and Environmental Building Association (EEBA), Built Green@Colorado, Energy Star®, LEED for Homes®, Environments for Living®, and Enterprise Green Communities.

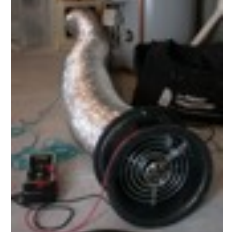
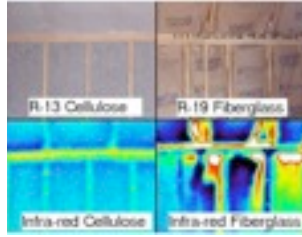
We are committed to helping you set attainable, measurable, manageable, and profitable goals and then surpass those goals in the construction and completion of every project.

BPS offers several training packages as detailed on the following page. Should you not see one that fits your needs, let us know and we can tailor a program just for you. For years we have modeled our training methods by combining classroom discussion with field work. We believe that this is the most effective method and is why our sample training agenda (detailed below) is split into two distinct components. Should a house within a reasonable distance not be available, we can conduct all training in the classroom.

In addition to training, BPS provides individual Builder and Developer consultations on the following:

- Plan reviews, code analysis, building science based technical plan analysis, and product evaluations
- Process integration and economic tradeoffs of high performance building systems into the design, engineering, and building processes
- Detailed computer energy modeling on whole building energy efficiency simulations
- High Performance HVAC (Heating Ventilation and Air Conditioning) and mechanical systems design and integration
- Complete Energy Rating (HERS ratings), building diagnostic inspection and 3rd party performance verification services for ENERGY STAR, Built Green Colorado, Environments for Living, LEED-H and Federal Energy Tax Credit





Sample- One Day Training Package

DAY ONE, PART 1

Present 4 hour basic, building science based, classroom training. This training will cover the core requirements of high performance programs; giving participants an understanding of the technical requirements of the program.

- Building Science- understanding energy flows, heat, air, and moisture
- Insulation systems- understanding insulation types and systems, RESNET inspection requirements, and ENERGY STAR requirements for building inspections
- Compliance with the ENERGY STAR Thermal By-Pass checklist
- Mechanical systems and load calculation requirements
- Lighting and appliance recommendations and requirements
- Ventilation systems recommendations for all projects

DAY ONE, PART 2

Conduct a 3 hour field inspection, high performance testing requirement and diagnostic demonstration. By applying the classroom instruction in a real life setting, participants will get valuable hands-on experience.

- Conduct a pre-drywall, rough stage mechanical, insulation, and thermal by-pass inspection
- Perform a multipoint, diagnostic blower door test on a final stage home
- Conduct a duct leakage to exterior test on final stage home
- Review rating documentation and certification paperwork required for all homes
- Review other diagnostic tools and testing procedures
- Builder question and answer wrap-up

OTHER PRESENTATION PACKAGES AND CUSTOMIZATIONS WE OFFER:

- 1 hour Marketing the Energy Efficient and High Performance Home.
- 1 hour Consumer Awareness
- 2 hour Marketing the Energy Efficient and High Performance Home.
- 2 hour Introduction to Building Science.
- 2 hour Moisture and Water Management.
- 2 hour High Performance and Green Home Basics.
- 4 hour comparative of "green" programs & features.
- 4 hour Building Science and Durability Systems.
- 4 hour Indoor Air Quality and Ventilation
- 4 hour Insulation Systems.
- 2 hour Mechanical and Ventilation Systems Basics.
- 4 hour Mechanical and Ventilation Systems in the High Performance Home.
- 7 hour comprehensive Building Science for today's competitive home building environment.
- 1 day Energy Star for New Homes
- 2 day Green Building Program Compliance Training.

Please contact Building Performance Solutions for additional information, pricing and scheduling.