



# Tuition Free Training

## Developing Sustainable Tribal Housing

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### AGENDA

Seattle, Washington

September 26-27, 2012

<b>WEDNESDAY – September 26, 2012</b>	
8:00 – 9:00	Registration and Morning Coffee
9:00 – 9:15	Welcome and Introductions
9:15 – 9:45	Topic I – Why Build Green? <ul style="list-style-type: none"> <li>• The Green Life and our connection to the Earth</li> <li>• Creating a better home</li> </ul>
9:45 – 10:15	Topic II – Finding Your Place <ul style="list-style-type: none"> <li>• Regional Issues</li> <li>• Climate</li> <li>• Transportation</li> <li>• Site and access to amenities</li> </ul>
10:15 – 10:30	Morning Break
10:30 – 12:00	Topic III – Highlighting Green Projects in Indian Country <ul style="list-style-type: none"> <li>• Explore examples of actual projects on Tribal Land</li> <li>• Discuss successes (and failures)</li> </ul>
12:00 – 1:15	Lunch – On Your Own
1:15 – 2:00	Topic IV – Making it Happen <ul style="list-style-type: none"> <li>• Planning</li> <li>• Budgeting</li> <li>• Funding</li> </ul>

**WEDNESDAY – September 26, 2012 (Continued)**

2:00 – 2:45	Topic V – Navigating the Requirements <ul style="list-style-type: none"><li>• International Energy Conservation Code (IECC)</li><li>• LEED, Energy Star, Enterprise Green Community Certification</li><li>• DOE/Federal guidelines for grants</li><li>• Energy modeling and audits</li></ul>
2:45 - 3:00	Afternoon Break
3:00 – 3:30	Topic VI – Smart Design and Living for Tomorrow <ul style="list-style-type: none"><li>• Adaptability of house – serving tenants needs</li><li>• Quality of construction – maintenance and management</li><li>• Sustainability – Green materials</li><li>• Universal Design/Lifecycle Assessment</li><li>• Size matters – your building footprint</li></ul>
3:30- 4:15	Topic VII – Solar Control Design Principles <ul style="list-style-type: none"><li>• Harnessing solar energy – Free!</li><li>• Understanding the path of the sun and your geographic position</li><li>• How to orient the house correctly on the site</li><li>• Design principles – Maximize south facing windows, calculate overhangs properly, and provide a thermal mass.</li></ul>
4:15 – 4:30	Recap/Questions
4:30	End of First Day Instructors available for additional questions

**Thursday – June 2, 2011**

8:00 – 9:00	Morning Coffee and Sign In
9:00 – 9:45	Topic VIII – Building Methods for Better Construction <ul style="list-style-type: none"><li>• Green materials</li><li>• Renewable and recycled materials</li><li>• Local resources</li><li>• Build a better wall – Building system types</li><li>• Pre-fab or modular buildings</li><li>• Panelized construction</li></ul>
9:45 – 10:15	Topic IX – Renovation vs. New Construction <ul style="list-style-type: none"><li>• Weatherization</li><li>• Improvements that make the biggest impact</li><li>• Average cost per square foot, New Construction vs. Rehabilitation</li></ul>
10:15 – 10:30	Morning Break
10:30 – 11:15	Topic X – Building Envelope <ul style="list-style-type: none"><li>• The thermal envelope – insulation function and performance factors</li><li>• R- Value &amp; U- Value</li><li>• Thermal bridging</li><li>• Insulation types</li><li>• Air transfer – How tight is your building?</li><li>• Windows and Doors</li></ul>

**THURSDAY – September 27, 2012 (Continued)**

11:15 – 12:00	Topic XI – Air Quality & Finishes <ul style="list-style-type: none"><li>• Health &amp; well being</li><li>• Ventilation (mechanical and natural)</li><li>• Contaminants (mold, radon, LBP)</li></ul>
12:00 – 1:15	Lunch – On Your Own
1:15 – 1:45	Topic XII – Finding the Power <ul style="list-style-type: none"><li>• What is energy?</li><li>• How does energy flow in a residential building?</li><li>• Renewable energy (solar, wind, geothermal)</li></ul>
1:45 – 2:15	Topic XIII – Heating & Cooling <ul style="list-style-type: none"><li>• Importance of a correctly sized system</li><li>• Efficiency</li><li>• Furnace types</li><li>• Heat pumps</li><li>• Energy Recovery Ventilation (ERV)</li><li>• Programmable thermostats</li></ul>
2:15 - 2:45	Topic XIV – All about Lighting <ul style="list-style-type: none"><li>• A strategic plan</li><li>• A comparison of types – incandescent, compact fluorescent, LED</li><li>• Energy star ratings</li><li>• Dimmers, motion sensors, automatic lighting</li><li>• Appliances</li></ul>
2:45 – 3:00	Afternoon Break
3:00 – 3:30	Topic XV – Water Conservation <ul style="list-style-type: none"><li>• Indoor Conservation – fixtures, plumbing, insulation</li><li>• Hot water heater – a variety of options to conserve energy and water</li><li>• Harvesting water</li><li>• Landscaping</li></ul>
3:30 – 4:00	Topic XVI – Additional Considerations <ul style="list-style-type: none"><li>• Construction methods</li><li>• Maintenance</li><li>• Home Owner Education</li></ul>
4:00 – 4:10	Topic XVII - Conclusion
4:10 – 4:20	Questions & Answer Session
4:20 – 4:30	Course Evaluations
4:30	End of Course. Instructors available for additional questions

*Please Note: Times and topics, as specified on the agenda, are approximate and may vary depending on the pace of the class.*