



BUILDING BIOLOGY AND ECOLOGY INSTITUTE

ECO-BUILDING 1-DAY WORKSHOP

MORNING SESSIONS:

- Introduction
- Sustainable Design
- Building systems and materials

9.00 – 10.00 Introduction

course procedure
content of sessions
course materials
the Building Biology and Ecology Institute
What constitutes a sustainable house/building?

10.15 – 11.15 Sustainable Design

Design parameters
The land
Design concepts
Functional concepts
Passive solar

11.30 – 12.30 Building systems and materials

Systems and materials and their effects
on the
relationship between human beings and the
built environment (**Biology**):
Material choices
Indoor air pollutants
Healthy indoor climate: low-toxic, non-
allergenic, moisture, ventilation, light, shading
relationship between the building and the
environment (**Ecology**):
Local and renewable sources for building
materials
Embodied energy
How to source sustainable materials

12.30 – 1.30 Lunch

AFTERNOON SESSIONS:

Energy
Water
Waste
Transport
Practical project

1.30 – 2.30 Energy

Energy use in buildings
Reduce – replace – generate
Efficiency options for electricity use
water heating
small-scale electricity generation:
solar pv, wind, water
Energy rating schemes

2.45 – 3.45 Water – Waste – Transport

Water:

Supply
Management
Stormwater
Green roofs
Wastewater treatment systems

Waste:

Construction phase:
Management, reduction, elimination
Waste hierarchy
Environmental management plan
Designing for deconstruction
Product stewardship
In-use phase:
Waste separation
Composting and recycling

Transport:

Location and transport needs
Transport modes

4.00 – 5. Practical projects in small groups

Develop a scenario for the building of a
sustainable house in an urban, semi-urban and
rural environment
Presentation and discussion
Remaining questions
Handing out of certificates

Course Details:

Date & time:

Saturday, 7 Nov 2009, 9am – 5pm

Venue:

Sustainable Living Centre
4 Olympic Place, New Lynn,
Waitakere City

Course handouts include:

Printout of powerpoint presentation
BBE Eco Building Products & Services
Directory
Waitakere's Eco-Friendly Home booklet
A list of useful websites
Bio-electrical guidelines

Cost:

\$180 per person

Deposit: \$50 - to be paid to confirm
booking

Payment to be made out to:

Johann Bernhardt

Postal address:

BBE, 11/5 Millais St, Grey Lynn,
Auckland

Or please enquire for my banking
details for electronic transfer

What to bring:

Pen and notepad
Lunch

Coffee, tea, morning and afternoon
refreshments provided

BUILDING BIOLOGY AND ECOLOGY INSTITUTE (BBE)

ECO-BUILDING 1-DAY WORKSHOP

*Gain an understanding of
sustainable building and help
meet the growing demand for
healthy and sustainable
homes and buildings*



Presented by:
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(BBE) Auckland**

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