

**TRAIN-TO-NZEB: Train-the-Trainers Course on Passive House Concepts**  
**08-09.02.2017**  
**Bucharest, Romania**

## THE PASSIVE HOUSE: WHAT DO WE NEED TO KNOW?

### Day 1

Date: 8 February 2017  
 Location: NIRD URBAN-INCERC (BKH-RO, Bucharest facilities)  
 Address: 266, Pantelimon Sos., 021652 Bucharest, Romania ([map](#))

Timing: 08:30 – 17:30

#### TRAIN-THE-TRAINER SESSION

8:30 – 9:00	Arrival and registration
9:00 – 9:45	<b>Summary of Passive House bases and overview of PHPP</b> <i>Art McCormack, Passive House Academy</i>
9:45 – 10:30	<b>Certification and quality assurance: the certified training schemes by PHI. Economics/Energy cost comparison between PH and Normal</b> <i>Representative of Passive House Institute</i>
10:30 – 11:00	Coffee break
11:00 – 11:45	<b>Insulation , including Lambda and U-values and materials demo</b> <i>Art McCormack, Passive House Academy</i>
11:45 – 12:30	<b>Thermal (and repeating) thermal bridging</b> <i>Art McCormack, Passive House Academy</i>
12:30 – 13:30	Lunch
13:30 – 14:00	<b>Increased airtightness and site examples</b> <i>Art McCormack, Passive House Academy</i>
14:00 – 14:30	<b>Passive House windows and doors, including U-value calculation demo</b> <i>Art McCormack, Passive House Academy</i>
14:30 – 15:00	<b>Description of mechanical ventilation systems and training, including systems suited to retrofitting</b> <i>Representative of Passive House Institute</i>
15:00 – 15:30	Coffee Break + short visit to practical training facility of BKH-RO
15:30 – 16:15	<b>Train to nZEB – Pedagogical Approaches</b> <i>Lis O'Brien, Limerick Institute of Technology</i>
16:15– 16:45	<b>PHPP Show</b> <i>Representative of Passive House Institute</i>
16:45– 17:30	<b>RES in Passive Houses. Q &amp; A</b> <i>Representative of Passive House Institute</i>
17:30	Closing of the first day



# THE PASSIVE HOUSE: WHAT DO WE NEED TO KNOW?

## Day 2

Date: 9 February 2017  
Location: NIRD URBAN-INCERC (BKH-RO, Bucharest facilities)  
Address: 266, Pantelimon Sos., 021652 Bucharest, Romania ([map](#))  
Timing: 09:00 – 16:00

### TRAIN-THE-TRAINER SESSION (continuation)

09:00 – 10:30 **Explain (PHA) and sketch building envelope demonstration models and then describe the envelope re continuity of key energy-related components as a examples of integrated construction systems** (Participants)

*Art McCormack, Passive House Academy  
& representative of BKH Romania / participants*

10:30 – 11:00 Coffee break

11:00 – 12:00 **Construction and energy performance of 4 case study retrofits**

*Art McCormack, Passive House Academy*

12:00 – 12:30 **Demonstration of a sample PH design solution**

*Art McCormack, Passive House Academy / participants*

12:30 – 13:30 Lunch

13:30 – 16:00 **Presentations by Romanian BKH trainers and guest lectors (tbd)  
Demonstrations and exercises in the practical training facility of BKH-RO.**

16:00 Closing of the TTT course

