

# Passive House Design and Construction

In this intensive 42-hour course you gain the knowledge and tools you need to design and build compliant Passive Houses in Canada. The world's leading standard in low-energy, sustainable construction, Passive House building techniques result in an 80-90% reduction in annual heating and cooling energy without the need for expensive renewable energy systems. Training material is geared to practical applications within Canadian building traditions, and respecting our residential building codes.

The focus and benefits of the course include:

- Passive House design theory
- building science for radical conservation
- building envelope optimization for cold climates
- hands-on building performance modelling using the PHPP design software
- mechanical system design for comfort and performance
- thermal bridge-free design of building assemblies
- architectural details and technical solutions
- detailed Canadian case study examples.

This course can be taken alone or as part of the UBC Award of Achievement in Sustainability Management.

This course is approved by AIBC for 42 Core LUs

### Instructors:

**GUIDO WIMMERS**, Dipl.-Ing., PhD, MRAIC, LEED AP

**ANDRE HARRMANN**, Dipl.-Ing.(FH), MHP, LEED AP O+M

*11 sessions: 9 Wed, Jan 22-Mar 26 (no class Mar 5),  
6:30-9:30pm and 2 Sat, Feb 15 & Mar 8, 9am-5:30pm  
UBC Robson Square. \$1,475*



Photo Source: Melis&Melis&Wimmers

In collaboration with the Canadian Passive House Institute

[cstudies.ubc.ca/ph](https://cstudies.ubc.ca/ph)  
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