# Passive House Modelling Course with PHPP

PHA is proud to be one of the leading training providers globally in Passive House, offering a wide range of internationally accredited programs on both sides of the Atlantic.

PHA has trained over 700 graduates of the Certified Passive House Designer and Certified Passive House Tradesperson trainings, graduates who are now providing design, consulting and contracting services on leading high performance projects.

PHPP

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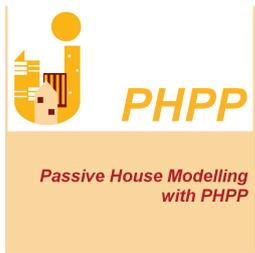
This three day course is primarily aimed at building design professionals that have a good understanding of energy modeling for buildings. It would also suit graduates of the Certified Passive House Consultant / Designer program.

A combination of presentations and demonstration by the class instructor (20% of the class) and hands-on application and practicing with the software (80%). The first two days are focused on entering a sample project in a step-by-step structured format, whereas the third day is reserved for free-style entering your own project.

Course accreditation:

This program has been accredited by the American Institute of Architects and is worth 20 Learning Units.

Learning Objectives

Day 1:
Define the Passive House Standard and summarize key elements required for Certification
Introduce the energy balance calculation for a Passive House project & the principle elements of the PHPP package
Case Study: Interpret the Verification worksheet with building data & the Climata Data & Areas worksheets
Case Study: Calculate U-values and complete the Wintype and Window worksheet – glazing and frames

Day 2:
Case Studies: Model the Shading and Shading-S worksheets
   Complete the Ventilation worksheet, involving air changes, heat recovery efficiency and infiltration
   Interpret the overall project energy balance including Annual Heat Demand, Heat Load & Cooling worksheets
Appreciate key entry requirements in the DHW Distribution worksheet, including demand, storage & distribution & understand the Solar DHW worksheet
Calculate the electricity & auxiliary electricity demand, specify the heating & cooling system & determine the overall Primary energy demand
Project: Set up & commence modelling individual projects in preparation for Day 3

Day 3
Project: Model individual Passive House project from start to finish in PHPP with assistance from the Instructor;
Project: Optimize the energy balance for the modeled project and ascertain whether it meets the Passive House standard
Gain the confidence to tackle any Passive House project and independently enter it into the PHPP.

Course fees: $150 (with NYSERDA discount)
Registration: www.passivehouseacademy.com   **email us:** events@passivehouseacademy.com