



Building Simulation Made Easy

DesignBuilder is a state-of-the-art software tool for checking building energy, carbon, lighting and comfort performance. Developed to simplify the process of building simulation, DesignBuilder allows you to rapidly compare the function and performance of building designs and deliver results on time and on budget.

Find out more at: www.designbuilder.co.uk

NEON (Norwegian Center for Energy optimization), has been registered as a knowledge based company, active in the following fields:

- Energy Saving in the building (up to 30%; SEB-CFD)
- Workshops on Energy Saving /Annual Energy consumption/ CFD

Find out more at: www.neon-no.com

Sales, Support, Training and Consultancy of DB Software in Scandinavia and Middle East by NEON:

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***Advanced Simulation and Energy Audit in Building(SEB-AUDIT)
Using Design Builder Software(DB)***

Duration: 40 hours

Course Objectives:

PART 1 (35 Hours)

- Heating and cooling design based on Energy plus engine and ASHRE weather data for different building zones and different time
- HVAC design and operation
- Energy simulation over a time period (days, months and years) for different zone

PART 2 (15 Hours)

- CFD simulation to analyze the impact of different parameters and objectives on the Indoor Air Quality (IAQ)

Course outline:

- Lecture on “Advanced Heat & Mass transfer”
- Lecture on “Principles of Computational Fluid Dynamic (CFD)”
- Learning and training with *Design Builder Software (DB)*
- Performing a practical projects using *DB* under supervision of teachers

Note: 60 Day licenses will be provided to attendees of the workshop