



CSA F280 Whole-house Design Heat Loss and Gain Calculations: Understanding and Implementing Efficient Design Principles

PRESENTER: John Harris, **DSG Building Diagnostics**

WHEN: September 18, 2024 @ 10:30 am – 5:00 pm EDT/ day (Virtual Classroom)



Registered EAs delivering the EnerGuide Rating System (ERS) will be able to perform accurate whole-house design heat loss and gain calculations using verified software for existing housing in the retrofit market to help with the sizing of the heating and cooling equipment based primarily on the information collected during a home energy evaluation, with a little additional F280-compliant information as needed. By completing the course, this is a service you can offer homeowners and contractors, providing a value an HVAC professional can use to size a heat pump. **(This course does not address air distribution; enable EAs to select heat pumps, or make sizing recommendations.)**

COURSE DESCRIPTION

With content developed by Natural Resources Canada (NRCan), instructor and CACEA member John Harris will guide the group through the whole house F280 process. At the end of the course, participants will:

- Understand why heat loss and gain calculations are needed for existing housing.
- Understand important definitions and concepts used in heat loss and gain calculations.
- Understand the whole-house heat loss and gain calculation principles and content.
- Recognize the similarities and differences between the data used for HOT2000 energy simulation and CSA F280 whole-house heat loss and gain calculations.
- Familiarize with verified software that can use HOT2000 inputs through a case study.

REGISTRATION INFORMATION

CRITERIA:

- This training is for registered energy advisors delivering the EnerGuide Rating System.
- A “Full” category CACEA member **OR** a non-CACEA member REA who completed and modelled 15 homes tested under an NRCan program (ERS, ENERGY STAR®, R2000, or NetZero - D & E; P&N) which is SO validated OR put forward by CACEA Full Member in good standing.
- **NON-MEMBER REQUIREMENTS:** \$1 million Errors and Omissions Insurance and a signed SO confirmation letter (annually). **USE THIS LETTER**) Must upload the proof of coverage and letter to the registration form.
- Successful participants will receive a Certificate of Completion, and be listed on CACEA's website.

ADDITIONAL COURSE INFORMATION:

- Participants will work through a case study and complete an independent exercise using the Volta SNAP tool.
- Use a full-size monitor, preferably two. Working primarily from an iPad or laptop monitor is not ideal).
- Ensure good connectivity and use a headset or quality external mic to reduce feedback or echoes.
- Printing of certain course materials in advance is recommended – details will be provided upon registration.

FEES **NEW PRICES**

CACEA Members: \$45.00 + tax **CECs = 6.5**

Non-members: \$65.00 + tax

CACEA will provide a 15% discount for 2+ participants from the same company (must be employees). Contact info@cacea.ca to access the discount. **Cancellations:** Cancellations will be accepted up to September 11th. A \$10 administration fee will be applied. Refunds will not be issued for cancellations after September 11th.

REGISTER AT FOR THIS EVENT: <https://cacea.ca/events/>

About the Canadian Association of Consulting Energy Advisors (CACEA)

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