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# Training Classes



**Sponsored by:**  
**Mingledorff's**

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**Where:**  
**Mingledorff's**  
1060 Triad Ct.  
Marietta, GA 30062

**Directions:**  
[Click here](#) for a map of the location from Google™ Maps

## Load Calculation for Commercial Buildings

**0.7 CEU (7 PDH)**

**Date:** 21 July 2020 [CLICK HERE TO REGISTER](#)

This hands-on course covers cooling and heating loads for commercial buildings using load calculation software. Students learn the fundamentals of design weather data, scheduling of loads, defining building parameters, and modeling various air system and plant types. Completion of the load calculation workshops is mandatory. The class manual furnished to each student includes detailed workshops for defining Single Zone Constant Volume, Variable Air Volume and Terminal Air Systems as part of the course. Students who complete this course are able to calculate heating and cooling loads for commercial buildings in order to properly size the HVAC system.

Carrier University is authorized by IACET to offer 0.7 CEUs for this program. This IACET CEU is equivalent to 7 PDH's.

**Schedule:** 8:00 a.m. to 4:30 p.m.

**Course No:** SSN001

**Tuition:** \$300.00 US

## Energy Simulation for Commercial Buildings

**0.7 CEU (7 PDH)**

**Date:** 22 July 2020 [CLICK HERE TO REGISTER](#)

This course focuses on the process required to perform whole building energy simulations and operating cost calculations using energy calculation software. Students are required to complete workshops involving in-depth understanding and hands-on modeling of simulation weather data, energy profiles, air systems, plant performance and utility rates. The class manual distributed to each student includes the detailed workshops which also include boiler, chiller, cooling tower, and air system configuration examples. Students who complete this course are able to perform energy simulations and operating cost analysis for commercial building systems.

Carrier University is authorized by IACET to offer 0.7 CEUs for this program. This IACET CEU is equivalent to 7 PDH's.

**Schedule:** 8:00 a.m. to 4:30 p.m.

**Course No:** SSN002

**Tuition:** \$300.00 US

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Carrier University is accredited by the International Association for Continuing Education and Training (IACET). Carrier University complies with the ANSI/IACET Standard, which is recognized internationally as a standard of excellence in instructional practices. As a result of this accreditation, Carrier University is authorized to issue the IACET CEU.

IACET credit is accepted by many states for approved professional development credit. Continuing Education Credits (CEU's) are converted to Professional Development Hours (PDH's) by multiplying by 10.

Courses which cover LEED® content may qualify for GBCI LEED continuing education credit (CMP) under the education category.

**Registration is required. Click the link to register for the desired class.**



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### Advanced Modeling Techniques for HVAC Systems

**0.7 CEU (7 PDH)**

**Date:** 23 July 2020

[CLICK HERE TO REGISTER](#)

**GBCI CMP 7 Hrs**

In this full day workshop-based class, students configure a series of advanced modeling scenarios. Included are workshops covering the process of eliminating unmet hours, optimizing the ASHRAE ventilation (OA) design for a multiple-zone application using the ASHRAE Standard 62.1 *Ventilation Rate Procedure*, configuring three different 100% OA systems (100% OA variable flow air system for laboratory make up, 100% OA VAV air system, and a standard 100% OA constant volume (DOAS) air system). Next we will configure VRF systems for both loads and energy modeling including heat pump and heat recovery applications. Also included are workshops on modeling of an air system that preheats with waste heat, warehouse heating systems with passive cooling, and a common boiler serving both domestic hot water and perimeter heating. Also included are workshops that cover new chiller-based heat recovery, setting up multiple energy conservation (ECM) alternatives, creating a template project, selecting pre-engineered packaged equipment to load output results, use of multipliers at the space and air system level, diversity modeling, analyzing maximum % RH using ASHRAE DP weather data, understanding the CFM calculation based on user SAT inputs. We will cover use of the Wizards for space and air system creation and rapid operating costs. Students who complete this course have the ability to configure and model all the advanced HVAC scenarios mentioned here utilizing computer simulation software.

Carrier University is authorized by IACET to offer 0.7 CEUs for this program. This IACET CEU is equivalent to 7 PDH's.

**Schedule:** 8:00 a.m. to 4:30 p.m.

**Course No:** SSN006

**Tuition:** \$300.00 US

### What's Provided?

Students are expected to bring their own laptop computers. Please ensure the latest version of the software is loaded on your laptop before the class begins. For students who do not currently have HAP installed, a 90-day demo is available if needed. If unable to bring a laptop to training, please contact Software Systems. Lunch, student workbook and CD are included as well.

### Discount Pricing

**Multiple Student**—Register two or more students for the same class from the same company at the same time, and each will receive a discount of 5% off regular tuition.

For full descriptions of the courses including expected learning outcomes, depth of material, prerequisites, required materials for class and requirements for earning a certificate, go to [www.CarrierUniversity.com](http://www.CarrierUniversity.com).



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