NEBB ASHRAE Ala Carte eLearning Course Menu

Effective December 1, 2024

This online eLearning program has been made available through a cooperative venture between NEBB and ASHRAE in an effort to provide options for continuing education credits and supplement learning for individuals who hold NEBB certification or are within their candidacy journey to become NEBB certified.

There courses listed below are available through June 30, 2025. New courses will be released August 1, 2025. All courses are available in dual measurement units. Dual unit courses carry both inch-pound and metric measurements units and can be used in both North America and outside North America.

Purchase Process and Processing Time:
- Courses are available for purchase on the NEBB Bookstore which can be accessed through your online account.
- Once payment is received through the certelligence portal, NEBB will send ASHRAE the order to be processed. NEBB sends orders to ASHRAE on Mondays and Wednesdays.
- ASHRAE will email you with course instructions. NEBB does not have access to this information so if you have any issues, you will need to reach out to ASHRAE for support.
- At the completion of the course, ASHRAE will provide a certificate of completion for you to upload to your certelligence profile. Please upload this under NEBB CECs – not, non-NEBB CECs.
- ASHRAE's turn-around time is two weeks, so please plan accordingly, and don't wait until the last minute to purchase the course.
- Orders placed after December 1 are not guaranteed to be processed by ASHRAE by December 31.
- NEBB is not responsible for delays in ASHRAE processing orders.

Course Name	NEBB CECs/PDHs	Measurement	List Price	ID
Airflow, Equipment Placement and Heat Release (Dual), 1 NEBB CECs/PDHs (AIA)	1	Dual	$58	168597
Building Facility and Chilled-Water Systems (Dual), 2 NEBB CECs/PDHs (AIA)	2	Dual	$63	168586
Computer Cooling Equipment (Dual), 1 NEBB CEC/PDHs (AIA)	1	Dual	$58	168277
DDC Networks and Protocol (Dual), 1.5 NEBB CECs/PDHs (AIA) (GBCI)	1.5	Dual	$63	242238
Liquid Cooling and Facility Cooling Systems, (Dual) 1.5 NEBB CECs/PDHs (AIA)	1.5	Dual	$58	168562

[Link to the NEBB bookstore](#)

Airflow, Equipment Placement and Heat Release (Dual), 1.0 PDHs (AIA)
This course provides airflow guidelines for the placement of data processing and communication equipment. (Dual), 1.0 PDH. Approved by AIA.

Training Level: Advanced
Type: **Individual Course**

This course provides airflow guidelines for the placement of data processing and communication equipment. List the equipment room airflow guidelines for maximizing the thermal and physical capabilities of the equipment room. Explain Airflow guidelines for the placement of data processing and communication equipment; How to obtain heat release information from information technology equipment. (Dual), 1.0 PDH. This course is approved by AIA.

Building Facility and Chilled-Water Systems (Dual), 2.0 PDHs (AIA)
This course discusses the requirements of the interface that exists between facilities and Datacom equipment. (Dual), 2.0 PDHs. AIA approved.

Training Level: Advanced
Type: Individual Course

This course discusses the requirements of the interface that exists between facilities (controlled by the building facility operators) and Datacom equipment (controlled by the Datacom manufacturers). Demarcation lines for the chilled-water system (CHWS) have been provided to indicate where these interfaces occur in relation to the Datacom equipment. Also, their locations within the data center or telecom room have been discussed. Define reliability and availability with respect to liquid-cooled racks and electronics; Describe the: Design considerations for chilled-water systems, piping systems, and electrical power sources for cooling systems in building facilities; Types of schemes and parameters to be monitored in a liquid-cooled system; Types of systems for monitoring liquid-cooled systems; Types of non-chilled-water systems in building facilities. List: Key subsystems and sensors to be considered for liquid-cooled systems; Issues impacting reliability and availability; Examples of commissioning procedures for liquid-cooling systems in a building facility. (Dual), 2.0 PDHs. This course is approved by AIA.

Computer Cooling Equipment (Dual), 1.0 PDHs (AIA)
This module discusses initial and final load densities and the options of using air cooling versus liquid cooling versus a combination to cool equipment. (Dual), 1.0 PDH. AIA approved.

Training Level: Advanced
Type: Individual Course

Trends and predesign phase load calculation methods provide insights, which can help establish the design criteria for the load that the facility will most likely be required to support today, and in the future. This module discusses initial and final load densities and the options of using air cooling versus liquid cooling versus a combination to cool equipment. Upon completion of this module, you will be able to: Explain various configurations of air cooling of computer equipment, including Cooling equipment: Outside the room; Inside the room but outside the rack; Physically mounted on the rack; Describe the importance of liquid cooling as a consideration and potential solution to high-density loads; Identify types of liquid used for enhanced heat transfer in liquid cooling equipment. (Dual), 1 PDH. This course is approved by AIA.

DDC Networks and Protocol (Dual), 1.5 NEBB CECs/PDHs (AIA) (GBCI)
This course explains the interoperability of controllers, network, and data protocols. It also introduces BACnet and other protocols. (Dual), 1.5 PDHs. (AIA) (GBCI)

Training Level: Essentials Level I
Type: Individual Course

This course explains the interoperability of controllers, network, and data protocols. It also introduces BACnet and other protocols.

Upon completion of this course, you will:
- Obtain an understanding of Standard Types of DDC Networks
- Explore and discuss the various DDC Network Components that make up a typical DDC Network
- Examine the Proprietary and Open DDC Network Protocols
- Compare and contrast various types of Open DDC Network Protocols

---

Liquid Cooling and Facility Cooling Systems, (Dual) 1.5 PDHs (AIA)
This course explains liquid cooling systems, their infrastructure, and considerations to observe during their installation. (Dual), 1.5 PDHs. AIA approved

Training Level: Advanced
Type: Individual Course

This course provides an overview of liquid cooling systems, their infrastructure, and considerations to observe during their installation. Upon completion of this course, you will be able to: Explain the: Need for liquid cooling systems for Information Technology equipment; Considerations for installing facility cooling systems for data centers; Identify different types of liquid cooling systems for Information Technology equipment; Describe the types of facility cooling equipment. (Dual), 1.5 PDHs. This course is approved by AIA.