



1-DAY COURSE SYLLABUS

Cooling and Heating Load Calculations

HVBE09-ONL26 · ONLINE (ZOOM)

This course provides essential guidelines and procedures for conducting cooling and heating load calculations, a critical step in HVAC system design and sizing. Load calculation is a vital part of designing, selecting, and sizing an appropriate HVAC system. This course covers the necessary guidelines and procedures for performing both cooling and heating load calculations. Designed for individuals with little background in the subject, it also offers valuable insights for more experienced professionals seeking to enhance their skills.

CEUS / PDHS	INSTRUCTOR	DAYS	PRICE	WORKSHOPS	SKILL LEVEL	COURSE CODE
0.6 / 6	Dr. Mohamed Hamed, PhD, P.Eng., FEC	1	\$495.00 CAD	1 workshop	Beginner	HVBE09- ONL26

DESCRIPTION

This course provides essential guidelines and procedures for conducting cooling and heating load calculations, a critical step in HVAC system design and sizing.

Load calculation is a vital part of designing, selecting, and sizing an appropriate HVAC system. This course covers the necessary guidelines and procedures for performing both cooling and heating load calculations. Designed for individuals with little background in the subject, it also offers valuable insights for more experienced professionals seeking to enhance their skills.

WHAT YOU WILL LEARN

- Gain a solid understanding of load calculations for HVAC systems
- Perform cooling and heating load calculations for air-conditioned spaces

COURSE OUTLINE

- 01 Outdoor Design Conditions
- 02 Cooling Loads Calculation Guidelines and Procedures
- 03 Heating Loads Calculation Guidelines and Procedures
- 04 Workshop: load calculation for an air-conditioned space

WHO SHOULD ATTEND

- Design and project engineers
- Architects
- Technologists
- Plant and facility engineers
- Consultants
- Mechanical engineers and technologists
- Maintenance and operation personnel
- Other technical personnel needing to develop/upgrade/refresh their knowledge of HVAC systems
- Engineering students

REGISTER NOW →

Customize this course — We can offer a customized version of this course, in terms of duration and content, upon request.

REQUEST CUSTOMIZATION

DAILY SCHEDULE

1-Day Course Schedule

START

10:00 AM EST

END

5:00 PM EST

FORMAT

Live Online

One-hour lunch break each day, plus refreshment and networking breaks each morning and afternoon session.

DAY	TOPIC	SUBTOPICS
DAY I	Outdoor Design Conditions	· Defining outdoor design data · Climate considerations
	Cooling Loads Calculation	· Guidelines and Step-by-step calculation procedure for cooling load calculations
	Heating Loads Calculation	· Guidelines and Step-by-step calculation procedure for heating load calculations
	Workshop	Perform load calculations for an air-conditioned space under instructor guidance