

DAYLIGHTING & CODES

This is an online course

Tuition: \$250

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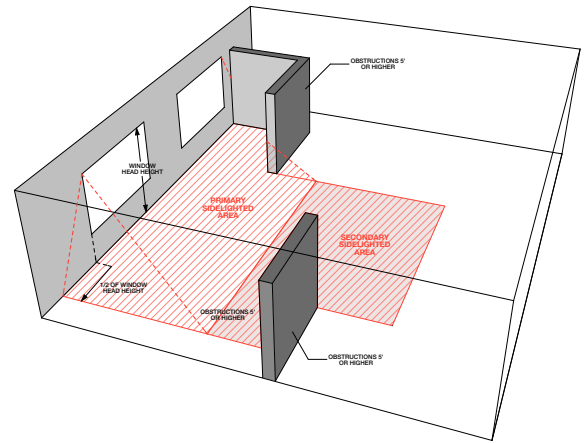


DIAGRAM OF PRIMARY AND SECONDARY DAYLIGHT ZONES

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Author/Presenter:

Matthew Tanteri, FIES, Educator IALD, CPHC

Partnering Organizations:

Cooper Union School of Science and Art
The Illuminating Engineering Society

Schedule of Sessions:

February 25th, 2015 1-2PM ET

Part 1: CODES AND THE PATH TO NET ZERO

60 minute live webinar

Part 2: DAYLIGHTING PROVISIONS OF NATIONAL MODEL ENERGY CODES

90 minute self-guided webinar on Digital Chalk learning platform

March 11th, 2015 1-2PM ET

Part 3: DAYLIGHTING PROVISIONS OF STATE & CITY CODES (New York, NY edition)

60 minute live webinar

Course Summary:

Building and energy codes are at the forefront of our nation's strive toward a "net zero" constructed environment by 2030. To achieve this rapid transformation, daylighting and the control of electrical lighting have been cast a critical role. This lecture series reveals how daylighting related provisions of model energy codes are being refined to capture the total impact of daylight on whole building energy reduction. It explains how daylighting related provisions are targeting increasingly stringent energy efficiency goals and are moving out from the realm of high performance and reach codes into our nation's baseline model energy codes.

Note; this course has a recommended pre-requisite. Participants should have taken the IES Daylighting Seminar 6-11, or the Daylighting Fundamentals course from Cooper Union, or have equivalent experience. See Cooper Union's Continuing Education program - Green Building Design for more information. <http://www.cooper.edu/academics/continuing-education>

Presentation Objectives:

- 1) Introduce the drivers shaping the current set of building energy codes, the bodies responsible for their development, and the processes in place for their revision, adoption and enforcement.
- 2) Provide a comprehensive overview of daylighting provisions within the current revisions of the model building energy codes, namely 2013 ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings (Std. 90.1) and 2012 International Energy Conservation Code (IECC).
- 3) Explain the intricate set of daylighting regulations that exist on state and city level (New York State and New York City) and in recent planning initiatives.

Continuing Education Credits

The seminar series qualifies for 3.5 IES CEUs, AIA LUs, and GBCI CEs.

Speaker:

Matthew Tanteri, FIES, Educator IALD, CPHC, SBSE is Principal of the award-winning lighting design firm Tanteri + Associates. He is a Fellow of the IES, a Past President of the New York IES Section, and a member of the following IES committees: Daylighting Committee, Sunlighting Subcommittee, Daylighting Metrics Committee, Museum and Art Gallery Lighting Committee and the Technical Review Committee. He is former Assistant Professor at the School of Constructed Environments at Parsons The New School of Design, a frequent lecturer at lighting related events such as Lightfair, and has authored and contributed to the writing and graphic design of several IES daylighting related publications such as IES SEM-6-11 Daylighting and RP-5 Recommended Practice for Daylighting Buildings. As a Certified Passive House Consultant (CPFC) he couples his knowledge of daylighting with low energy building design.

Format:

The Daylighting & Codes seminar is divided into three parts. Parts 1 and 3 are one-hour live webcasts presented live at a specified date and time. Part 2 is a 90 minute pre-recorded interactive webinar offered during the 2-week period between Parts 1 and 3.

Course Schedule and Description:

February 25th, 2015 1-2PM EST

Part 1- 60 minute live webinar

CODES AND THE PATH TO NET ZERO

This introductory lecture establishes the background for the course series. It identifies the drivers shaping the current set of building energy codes, the bodies responsible for their development, and the processes in place for their revision, adoption and enforcement.

February 26th - March 10, 2015

Part 2- 90 minute self-guided webinar on Digital Chalk learning platform

DAYLIGHTING PROVISIONS OF NATIONAL MODEL BUILDING ENERGY CODES

The second lecture provides a comprehensive overview of the numerous daylighting provisions within two primary model energy codes. It begins with explaining the fundamental definitions of daylight zone and daylight area upon which most of the daylighting-related provisions are based, and advances on to chart their compliance paths in various sections, most notably Envelope and Lighting. It explains in comparative fashion the intricacies of the two model energy codes and summarizes the major aspects of their provisions.

March 11th, 2015 1-2PM EST

Part 3- 60 minute live webinar

DAYLIGHTING PROVISIONS OF STATE & CITY CODES (New York, NY edition)

The final lecture brings an understanding of daylighting regulations to state and city level, in this case, New York State and New York City. It begins with the long established requirements for natural light that reside in the current state building and residential codes, and energy driven fenestration area limits in the current state energy code. In order to impart critical perspective on the daylighting related provisions scattered among NYC's intricate web of codes, laws and zoning regulations; it presents a brief history of daylighting in New York City from the early 19th century to present. Finally, it delves into the current planning initiatives of the mayoral administration, from recently enacted amendments that foster daylighting to a newly set net zero target.