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Reston, VA — The American Society of Civil Engineers (ASCE) is offering a free trial of ASCE 7 Online. ASCE 7 Online provides digital access to ASCE 7-16 and ASCE 7-10. This trial period of ASCE's most prominent standards comes prior to the release of the newly updated Minimum Design Loads and Associated Criteria for Building and Other Structures, ASCE/SEI 7-22 next month. The free trial is available through November 30 and will expire December 1, 2021. ASCE/SEI 7 is an integral part of building codes in the United States, and around the globe, and is adopted by reference into the International Building Code, the International Existing Building Code, the International Residential Code, and the NFPA 5000 Building Construction and Safety Code. Structural engineers, architects, and those engaged in preparing and administering local building codes will find the structural load requirements essential to their practice. The purpose of a building code is to establish minimum requirements necessary to protect and improve public health, safety and welfare in the built environment. Model building codes provide for protection from fire, structural collapse, general deterioration, and extreme loads related to man-made and natural hazards. To view ASCE 7 Online and participate in the free trial, visit . About the American Society of Civil Engineers Founded in 1852, the American Society of Civil Engineers represents more than 150,000 civil engineers worldwide and is America's oldest national engineering society. ASCE works to raise awareness of the need to maintain and modernize the nation's infrastructure using sustainable and resilient practices, advocates for increasing and optimizing investment in infrastructure, and improve engineering knowledge and competency. For more information, visit www.asce.org or www.infrastructurereportcard.org and follow us on Twitter, @ASCETweets and @ASCEGovRel. View Important Policies and System Requirements for this course. This webinar was co-sponsored by ASCE's Structural Engineering Institute (SEI) and ASCE Continuing Education Instructor: William L. Coulbourne, P.E., F.SEI, F.ASCE Course Length: 1.5 Hours Purpose and Background This webinar provides technical information important to wind engineering designers in the use of the wind load provisions of ASCE 7-16 Minimum Design Loads for Buildings and Other Structures for determining pressures for components and cladding. The concept of wind pressures for building components has been part of the ASCE 7 standard for a number of years, but the changes to the wind load provisions in ASCE 7-16 and new wind speed maps that change the design of wind speed for all structure categories in areas away from the hurricane-prone regions impact design for components and cladding. Learning Outcomes and Webinar Benefits You will learn how to apply the wind load provisions in ASCE 7-16 to properly determine wind design pressures for building components and cladding. The material has been developed in a way that assumes some experience with wind design issues and methodology. The newly revised sections in ASCE 7-16 are referenced as strength design issues are important in component design. Upon completion of this course, you will be able to: Gain an understanding of how to apply current wind design methodologies to component and cladding design issues Gain an understanding of the many wind design variations there can be related to components Identify what the significant changes are in the ASCE 7-16 wind provisions that affect components and cladding Assessment of Learning Outcomes Students' achievement of the learning outcomes will be assessed via a short post-assessment (true-false, multiple choice and fill in the blank questions). Intended Audience The level of instruction is appropriate for engineers with some knowledge of the wind provisions of ASCE 7-16 and how to apply those provisions to design situations. The primary audience is structural engineers who have some experience at performing designs for buildings and other structures or architects who specify component and cladding systems. Webinar Outline Wind design methodology for components and cladding Low-rise building design Buildings with height greater than 60 feet Simplified methods Open buildings Building appurtenances How to Earn your CEUs/PDHs and Receive Your Certificate of Completion To receive your certificate of completion, you will need to complete a short on-line post-test and receive a passing score of 70% or higher within 1 year of purchasing the course. How do I convert CEUs to PDHs? 1.0 CEU = 10 PDHs [Example: 0.1 CEU = 1 PDH] View Important Policies and System Requirements for this course. View all webinars related to ASCE 7-16. The webinar allows the audience to see this webinar straight from my office, without having to travel. I have attended many ASCE webinars and find that ASCE knows how to put together an effective webinar. - Anonymous Attendee Sponsored by ASCE Continuing Education and ASCE's Structural Engineering Institute (SEI). Instructor:William L. Coulbourne, P.E., F.SEI, F.ASCE Course Length: 1 Hour Purpose and Background This three-part webinar series discusses how to use the wind load provisions of ASCE 7-16 Minimum Design Loads for Buildings and Other Structures. The series will cover the basics of wind engineering including the atmospheric and aerodynamic effects of wind on buildings. The changes recently adopted for use in ASCE 7-16 will be a prominent part of the material. The changes include revised wind speed maps, changes in external pressure coefficients for roof components and cladding and the addition of pressure coefficients to use for roof mounted solar arrays. The series will cover all methods used to develop wind pressures on buildings - the directional procedure, the envelope procedure, and simplified methods where wind pressures are determined from tables of results based on exposure classification, height and building characteristics. Wind pressure determination for both the Main Wind Force Resisting System (MWFRS) and Components and Cladding (C&C) are included. Wind pressures are developed for several buildings including variations on the pressures caused by changing the exposure and height of the buildings. This webinar is being offered early in the outreach process for ASCE 7-16 to give engineers a chance to get familiar with the new provisions long before their local community adopts a building code that requires the use of these new provisions. Engineers may want to practice the use of these new provisions to determine the real effects on designs and on client requirements. Other engineering tools such as computer software will not likely be available yet. Primary Discussion Topics Wind speed maps Wind design equations Wind design methods and important design elements Example problems to illustrate methods and equations Learning Outcomes Upon completion of this course, you will be able to: Learn how to apply the wind load provisions in ASCE 7-16 to design situations Become acquainted with ASCE 7-16 changes Use the wind provisions to solve an engineering problem Describe the design issues that must be considered when buildings are not exactly like those used to develop the wind provisions Webinar Benefits Gain an understanding of how wind interacts with building elements and how building design influences wind pressures Examine how to apply the wind load provisions to example buildings Learn what the significant changes are in the ASCE 7-16 wind provisions Learn how to apply changes in component and cladding loading and how to use provisions for roof mounted solar arrays Assessment of Learning Outcomes Students' achievement of the learning outcomes will be assessed via a short post-assessment (true-false, multiple choice and fill in the blank questions). Intended Audience The level of instruction is appropriate for engineers just learning the specific wind provisions of ASCE 7-16 and how to apply those provisions to design situations. The primary audience is structural engineers who have some experience at performing designs for buildings and other structures but have not had much experience with wind design. Outline Background and basics Atmospheric effects Aerodynamic effects Basic wind equation Building classification ASCE 7-16 definitions Wind speed maps Directional procedure Envelope procedure Simplified procedures MWFRS and components and cladding Wind load cases Example - low-rise building Analytical method Low-rise method Example - unusual shaped building (analytical method) Example - low-rise building Simplified method Variation of exposure and height How to Earn your CEUs/PDHs To receive your certificate of completion, you will need to complete a short on-line post-test and receive a passing score of 70% or higher within 1 year of purchasing the course. How do I convert CEUs to PDHs? 1.0 CEU = 10 PDHs [Example: 0.1 CEU = 1 PDH] Standard development Interested in the ASCE 7 development cycle? Membership on a standards committee is open to everyone including non-members. Learn about participation via committee membership, attending meetings and more.

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