
NORTH AMERICAN THEORY AND PRACTICE OF STEEL DESIGN FOR SEISMIC APPLICATIONS

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DAY 1

Introduction. The overall specification framework for steel design for seismic applications in North America.

The AISC Specification for Structural Steel Buildings. General approach to design, approach toward structural stability, outline of the Specification, and main differences with other standards.

DAY 2

The AISC Specification for Structural Steel Buildings (Continued). General approach to design, approach toward structural stability, outline of the Specification, and main differences with other standards.

The RCSC Specification for Structural Joints Using High-Strength Bolts. Overview of the RCSC Specification and relationship with the AISC Specification.

DAY 3

The AISC Seismic Provisions for Structural Steel Buildings. General requirements, analysis, members and connection design requirements, lateral-force resisting systems considered.

DAY 4

The AISC Seismic Provisions for Structural Steel Buildings (Continued). General requirements, analysis, members and connection design requirements, lateral-force resisting systems considered.

The AISC Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications. General concepts, overview of prequalified systems, process for prequalification.

DAY 5

ASCE 41-17. Seismic Evaluation and Retrofit of Existing Buildings. Generalities, general framework, analysis and evaluation, ductility requirements and approved mechanisms.

The AISC Seismic Provisions for Evaluation and Retrofit of Existing Structural Steel Buildings. General requirements, component properties and requirements, evaluation of various lateral force resisting systems