

AISI S100-16, NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

**Cold-Formed Steel Classroom:
AISI S100 Lecture Series**

PRESENTERS

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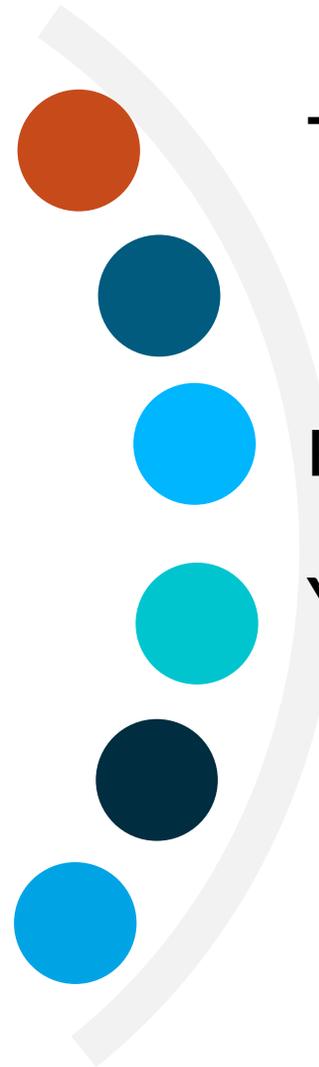
CFSEI

**COLD-FORMED STEEL
ENGINEERS INSTITUTE**

WHY THIS COURSE ????

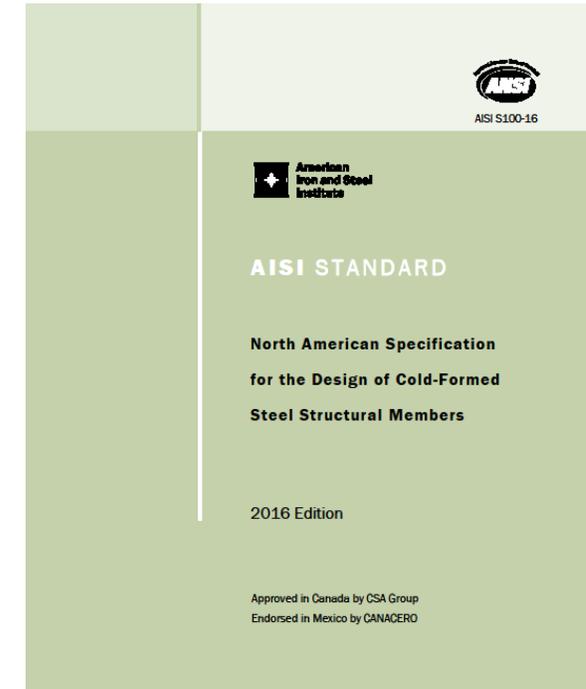
- Because cold-formed steel is typically not taught in Universities
- The use of cold-formed steel has increased exponentially over the years
- Provide a basic knowledge of cold-formed steel behaviour and design
- Looking back
 - ~ in 1996, Dr. Roger LaBoube and Dr. Reini Schuster created a six-hour seminar for AISI
 - ~ presented by AISI, LGSEA and ASCE
- *Structural engineers can now take this course on-line:*
<https://cfseiondemand.com/courses-on-aisi-standard-s100-16-series/>

ULTIMATE LIMIT STATES

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- Tension member yielding
 - Flexural column buckling
 - Flexural-torsional column buckling
 - Yield/Lateral-torsional beam buckling
 - Shear buckling of web plates
 - Connection or connector failure

AISI S100-16: LAYOUT

- A. General Provisions
 - B. Design Requirements
 - C. Design for Stability
 - D. Members in Tension
 - E. Members in Compression
 - F. Members in Flexure
 - G. Members in Shear and Web-Crippling
 - H. Members Under Combined Forces
 - I. Assemblies and Systems
 - J. Connections and Joints
 - K. Strength for Special Cases
 - L. Design for Serviceability
 - M. Design for Fatigue
- Appendix 1: Effective Width of Elements
- Appendix 2: Elastic Buckling Analysis of Members
- [Appendix A: Provisions for the U.S. & Mexico](#)
- Appendix B: Provisions for Canada



A Commentary to S100-16 is available to provide a record of the reasoning behind, and justification for, the various provisions of the Specification.

COURSE OUTLINE

1. Introduction (Chapters A and B)
 2. Effective Width of Elements (Appendix 1)
 3. Members in Tension (Chapters D and J)
 4. Members in Compression (Chapter E)
 5. Members in Flexure (Chapter F)
 6. Members in Shear and Web Crippling (Chapter G)
 7. Members Under Combined Forces (Chapter H)
 8. Connections and Joints (Chapter J)
 9. Special Cases - Testing and Fatigue (Chapters K & M)
 10. Direct Strength Method (Chapters E, F and Appendix 2)
 11. Assemblies and Systems (Chapters I and C)
- Plus 50 pages of "ADDITIONAL DETAILED EXAMPLES"*

AVAILABLE PROFESSIONAL CREDITS

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