

**MATRIX FOR THE  
8-HOUR STRUCTURAL III EXAMINATION**

**SEISMIC ISSUES**

- FORCE DISTRIBUTION
  - Irregularities
  - Deformation Compatibilities
  - Basic Dynamics
  
- SITE EFFECTS
  - Soil Structure Interaction
  - Foundation Design
  
- STRUCTURAL COMPONENT DESIGN
  - Primary LFRS Members
  - Diaphragms, Chords and Collectors
  
- DETAILING AND DUCTILITY
  - Members
  - Connections
  
- NON-STRUCTURAL COMPONENTS
  - Forces on Elements
  - Anchorage

**OTHER ISSUES (Loads, Design, Detailing)**

- Snow Drifting
- Load Combinations
- Verify Computer Output

**Structural Design Standards**

**Building and other structures:**

- **IBC, International Building Code, 2006 Edition with referenced national standards for various materials.**

With each edition of the IBC, there are a series of standards that follow that edition and the candidate must stay within that series of standards. The appropriate standards for an edition of the code is shown in Chapter 35 of the code. For example, the 2006 IBC references portions of ASCE 7-05. Using ASCE 7-02 with the 2006 IBC would be inappropriate and could result in not receiving points on a problem.

**Bridges:**

- **AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 5<sup>th</sup> Edition, 2010, American Association of State Highway and Transportation Officials, Washington, D.C.**