

This seminar will better prepared A.R.E. candidates for the Structural section of the exam. Please bring colored pens or pencils to all sessions. Breakfast and lunch will be provided for each session. Payable by credit card or checks made out to AIA Rochester

SUNDAY SATURDAY FRIDAY

## SCHEDULE

### Friday

9:00 AM- 7:00 PM

- 9:00 AM – 1:30 PM
- Seminar Introduction
  - Review of Trigonometry
  - Forces:     General Definitions  
                  Force Resolution  
                  Force Addition
  - Moments and Couples
  - Stresses and Strain / Hooke's Law
- 2:30 PM - 7:00 PM
- Free Body Diagrams
  - Equilibrium, Loads and Reactions
  - Truss Analysis :     Method of Joints  
                                  Method of Sections

### Saturday

8:00 AM- 8:00 PM

- 8:00 AM – 1:30 PM
- Tributary Load Analysis
  - Geometry of Sections
  - General Beam Design Theory
- 2:30 PM - 5:30 PM
- Load, Shear and Bending Moment Diagrams
  - Design of Structural members in Wood and Concrete
- 5:30 PM - 8:00 PM
- Review of General Structures Mock Exams  
(Please do not miss this session)

### Sunday

8:00 AM- 6:30 PM

- 8:00 AM - 1:30 PM
- Design of steel members
  - Selection of structural systems
  - Foundation Systems
  - General Lateral Load- Resisting Strategies
- 2:30 PM - 5:00 PM
- Wind Loads
  - Seismic Loads
  - Lateral forces Mock Exam
- 5:00 PM - +/- 6:30 PM (approximate finish time)
- Structural Vignette for ARE 4.0  
(this presentation is contingent on seminar progress)

DATE:  
FRI OCT. 23  
SAT OCT. 24  
SUN OCT. 25

LOCATION:  
MORSE SASH & DOOR  
40 JARLEY RD  
ROCHESTER, NY 14623

COST:  
\$350

REGISTER BY OCTOBER 2<sup>ND</sup>:  
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