**ARE group maintenance/study plan**

<table>
<thead>
<tr>
<th>Month</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>June/July</td>
<td>Round Table*/ Vignette Review</td>
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<tr>
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<td>Building Systems 4.0 Seminar (Alagasco)</td>
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<tr>
<td>August</td>
<td>Round Table*/ Vignette Review</td>
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<tr>
<td>September</td>
<td>Building Design &amp; Construction Systems 4.0</td>
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<tr>
<td>October</td>
<td>Round Table*</td>
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<tr>
<td>November</td>
<td>Structural Systems 4.0</td>
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<tr>
<td>December</td>
<td>Round Table*</td>
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**ARE maintenance meeting***

The goal would be to have an intro study session to each section of the ARE to jump start individual studying. Time is then allowed for individual or group study and/or test taking - before the next subject/division starts. These would then be followed up with round table discussions to reflect on each past division taken. This schedule covers all 7 divisions of the ARE 4.0 in 1 year’s time. The Vignette Review will cover each vignette portion of each division as well as the Schematic Design vignettes. For those interested in group studying; the AIA will continue to host weekly meeting on Tuesdays at the Vestavia Hills Library at 6pm. Happy Studying!

Interns, mentors and firm intern coordinators within each firm are encouraged to attend and participate.

Please also see the ARE Study Plan for next year!
Building Systems

Part 1: The Multiple-Choice Exam

Week One
- Lesson One Sustainable Design
- Lesson Two Water Supply and Drainage Systems
- Lesson Three Basic Thermal Processes
- Lesson Four Comfort, Climate, and Solar Design

Week Two
- Lesson Five Mechanical Equipment and Energy Codes
- Lesson Six Electrical Systems
- Lesson Seven Lighting

Week Three
- Lesson Eight Acoustics
- Lessons Nine Vertical Transportation
- Lesson Ten Fire Safety

Part II: The Graphic Vignette

Week Four
- Lesson Eleven The NCARB Software
- Lesson Twelve Taking the Exam
- Lesson Thirteen Mechanical and Electrical Plan Vignette

Individual studies/test taking/ Additional Reading Materials
Ballast Chapters 27 - 34
Archiflash note cards
MEEB Ed. 10
Dorf Video Vignettes
Building Design & Construction Systems 4.0

Part 1: The Multiple-Choice Exam

Week One
- Lesson One Concrete
- Lesson Two Masonry
- Lesson Three Wood
- Lesson Four Metals

Week Two
- Lesson Five Thermal and Moisture Protection
- Lesson Six Doors, Windows, and Glass
- Lesson Seven Finish Work
- Lesson Eight Building Codes
- Lessons Nine Sustainable Design

Part II: The Graphic Vignette

Week Three
- Lesson Ten The NCARB Software
- Lesson Eleven Taking the Exam
- Lesson Twelve Accessibility/Ramp Vignette
- Lesson Thirteen Roof Plan Vignette
- Lesson Fourteen Stair Design Vignette

Individual studies/test taking/Additional Reading Materials
- Ballast Chapters 35 – 46
- Archiflash note cards
- Dorf Video Vignettes
ARE pacing/study guide

Structural Systems

Part I: The Multiple-Choice Exam

Week One
• Lesson One Statics
• Lesson Two Beams and Columns
• Lesson Three Wood Construction
• Lesson Four Steel Construction
• Lesson Five Reinforced Concrete Construction

Week Two
• Lesson Six Walls
• Lesson Seven Connections
• Lesson Eight Foundations
• Lessons Nine Conventional Structural Systems
• Lesson Ten Long Span Structural Systems

Week Three
• Lesson Eleven Trusses
• Lesson Twelve Earthquake Design
• Lesson Thirteen Wind Design
• Lesson Fourteen Notable Building and Engineers

Part II: The Graphic Vignette

Week Four
• Lesson Fifteen The NCARB Software
• Lesson Sixteen Taking the Exam
• Lesson Seventeen Structural Layout Vignette

Individual studies/test taking/Additional Reading Materials
Ballast Chapters 10 – 26
Archiflash note cards
Thaddeus Seminar notes
FEMA Chapters 4, 5 & 8
Dorf Video Vignettes