SITE PLANNING AND DESIGN (study guide per NCARB list of needed knowledge and skills)

I. PRINCIPLES - 16-24% of scored items
   A. SITE PLANNING
   B. SITE DESIGN AND DESIGN PRINCIPLES
   C. IMPLICATIONS OF DESIGN DECISIONS
   D. ADAPTIVE REUSE OF BUILDINGS AND/OR MATERIALS
   E. ARCHITECTURAL HISTORY AND THEORY

Kaplan Lesson 1: Movement and Utility Systems. Pg. 3-26 with quiz

Kaplan Lesson 2: Site Assessment and Site Work. Pg. 30-83 with quiz

Balast Chapter 2: Environmental Analysis and Project Planning. Pg 2.1-2.27

Balast Chapter 3: Building Programming. Pg. 3.1-3.16

Balast Chapter 5: Site analysis and design. Pg. 5.1-5.15

Balast Chapter 35: Site Work. Pg. 35.1-35.7

II. ENVIRONMENTAL ISSUES- 24-32% of scored items
   A. INTERPRETING EXISTING SITE/ENVIRONMENTAL CONDITIONS AND DATA
   B. DESIGN IMPACT ON HUMAN BEHAVIOR
   C. HAZARDOUS CONDITIONS AND MATERIALS
   D. SUSTAINABLE DESIGN
   E. ALTERNATIVE ENERGY SYSTEMS AND NEW MATERIAL TECHNOLOGIES

Kaplan Lesson 3: Sustainable design. Pg. 87-106 with quiz

Kaplan PP&P Lesson 5: Design relationship to the human body. Pg. 71-84 with quiz

Kaplan PP&P Lesson 6: Urban design. Pg. 87-105 with quiz

Kaplan PP&P Lesson 7: The Human Dimension. Pg. 109-122 with quiz

Kaplan PP&P Lesson 8: Environmental Factors. Pg. 125-147 with quiz

Kaplan PP&P Lesson 9: Land analysis. Pg. 155-169 with quiz

Kaplan Building Systems Lesson 4: Comfort Climate and Solar Design. Pg 65-88 with quiz

Kaplan Building Systems Lesson 5: Innovative Technologies. Pg. 105-106

Balast Chapter 27: Human Comfort and Mechanical system Fundamentals. Pg 27.1-27.8

Balast Chapter 29: Energy Efficiency and Alternative Energy Sources. Pg 29.1-29.16

Balast Chapter 30: Sustainable Design. Pg. 30.1-30.19
III. CODES AND REGULATION- 14-22% of scored items
   A. GOVERNMENT AND REGULATORY REQUIREMENTS AND PERMIT PROCESS
   B. ACCESSIBILITY LAWS, CODES AND GUIDELINES

Kaplan PP&P Lesson 10: Land and Building Regulation. Pg. 175-185 with quiz
Kaplan PP&P Lesson 11: Zoning Ordinances and Building Codes. Pg. 187-212 with quiz
Kaplan Building Design and Construction Systems Lesson 8: Building Codes. Pg 143-155 with quiz
Balast Chapter 55: Building Regulations. Pg. 55.1-55.27
Balast Chapter 56: Barrier-Free Design. Pg 56.1-56.11

IV. MATERIALS AND TECHNOLOGY- 22-30% of scored items
   A. CONSTRUCTION DETAILS AND CONSTRUCTABILITY
   B. CONSTRUCTION MATERIALS
   C. FIXTURES, FURNITURE, EQUIPMENT AND FINISHES
   D. PRODUCT SELECTION AND AVAILABILITY
   E. THERMAL AND MOISTURE PROTECTION
   F. NATURAL AND ARTIFICIAL LIGHTING
   G. IMPLICATIONS OF DESIGN DECISIONS

Kaplan Building Design and Construction Systems. Lesson 5. Thermal and moisture Protection. Pg 91-101 with quiz
Kaplan Building Systems Lesson 7. Lighting. Pg 129-142 with quiz
Balast chapter 32. Electrical Systems. Pg 32.1-32.16
Balast Chapter 41. Moisture Protection and Thermal Insulation. Pg 41.1-41.13
Balast Chapter 48: Construction Drawings and Details. Pg 48.1-48.8

V. PROJECT AND PRACTICE MANAGEMENT- 4-12 % of scored items
   A. GOVERNMENT AND REGULATORY REQUIREMENTS AND PERMIT PROCESS
   B. ACCESSIBILITY LAWS, CODES AND GUIDELINES

Kaplan PP&P Lesson 12: Scheduling of Design and Construction. Pg 221-235 with quiz
Kaplan PP&P Lesson 13; Budget Analysis and Cost Estimating. Pg. 239-265 with quiz
Kaplan PP&P Lesson 14: Delivery Methods. Pg 269-272 with quiz
Kaplan PP&P Lesson15: The Architectural design Team. Pg 275-284 with quiz
Kaplan Construction Documents and Services Lesson 5. Cost Estimates. Pg 79-93 with quiz
Kaplan Construction Documents and Services Lesson 6: Time and Schedule. Pg, 99-111 with quiz
Balast Chapter 53: Project and practice Management. Pg 53.1-53-9
Further readings from Architects Handbook of Professional Practice.

- (I didn’t read this for this exam but will read for PPP & CD&S)

Chapter 11 Risk Management pg 231-270
Chapter 12 Technology and information systems pg 271-306
Chapter 13 project management pg 307-359
Chapter 14 regulation pg 361-393
Chapter 15 defining services pg 397-400
Chapter 16 Planning – predesign services pg 401-424

Further practice for vignettes and exam

- (I attempted every vignette from ARE Forum that I could and got as much feedback as possible)

Vignettes NCARB
Vignettes ARE Forum
Are flash cards
Balast flash cards
NALSA insite video on Site planning vignettes (norman dorf)
Practice exams Kaplan
Practice exams Balast