

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

### **I. PRICIPLES- 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 Lesson8: 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

## **Furthur readings from Architects Handbook of Professional Pactice.**

- ( 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

## **Furthur practice for vignettes and exam**

- ( I attempted every vignette from ARE Forum that I could and got as much feed back 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