

NEVADA STUDY GUIDE

A study guide developed to assist candidates prepare for the Nevada Supplemental Examination for Registered Interior Designers



*Nevada State Board of
Architecture, Interior Design
and Residential Design*

July 2009

Table of Contents

Introduction	1
Examination Format	1
I. Reference Materials	2
Examination Content	2
Knowledge Areas	2
I. Interior Designers' Scope of Practice Regarding Wall Partitions	3
Objective.....	3
Reference Material	4
II. Wall Partition Construction Materials	4
Objective.....	4
Reference Material	4
III. Wall Partition Connections	5
Objective.....	5
Reference Material	5
IV. Structural Calculations for Lateral Loads	5
Objective.....	5
Reference Material	6
V. Exiting Issues Relating to Wall Partitions.....	6
Objective.....	6
Reference Material	7
VI. 20-Minute Fire-Rated Door Assemblies.....	7
Objective.....	7
Reference Material	7
VII. Collaboration	7
Objective.....	7
Reference Material	8
VIII. Accessibility Standards	8
Objective.....	8
Reference Material	8

Introduction

Pursuant to legislation enacted by the state of Nevada in October 1995, individuals who provide interior design services must be registered with the Nevada State Board of Architecture, Interior Design and Residential Design.

For an application and details on the eligibility requirements for registration, please contact:

Nevada State Board of Architecture, Interior Design & Residential Design
2080 E. Flamingo Road, Suite 120
Las Vegas, NV 89119
(702) 486-7300

Interactive applications and registration information are available on the board's website at: www.nsbaidrd.state.nv.us.

This document provides candidates with the appropriate information and sources that will enable them to prepare for the Nevada Supplemental Examination for Registered Interior Designers.

To effectively use this document, review the eight knowledge areas of the exam and each area's respective performance criteria. Details of each knowledge area are provided, along with the objectives used in developing the test questions.

Not all sections of each knowledge area will be tested on the examination. However, candidates are responsible for all sections of each of the knowledge areas. The specific content of the exam will be drawn at random from this information.

Examination Format

The Nevada State Board of Architecture, Interior Design and Residential Design has developed the format and content areas of the Nevada Supplemental Examination.

The examination is an open-book, multiple-choice examination with approximately 29 questions. Candidates have a total of 75 minutes to complete the entire exam.

I. Reference Materials

- Chapter 623 of Nevada Revised Statutes – 2006
- Nevada Board of Architecture, Interior Design and Residential Design – Rules and Regulations as of August 2006
- 2006 International Building Code
- Gypsum Association Fire Resistance Design Manual, Gypsum Systems, 18th Edition
- ANSI A117.1 – 2003
- ASCE/ SEI: Minimum Design Loads for Buildings and Other Structures – 2005
- Building Construction Illustrated, Francis D.K. Ching, 1975
- Architectural Graphic Standards, Ramsey/ Sleeper, Tenth Edition

All reference materials listed above are permitted in the examination. Candidates are permitted to bring a calculator (without programmable memory) and #2 pencils. No other material will be allowed.

Examination Content

The Nevada Supplemental Examination measures the following knowledge areas:

- Interior Designers' Scope of Practice Regarding Wall Partitions
- Wall Partition Construction Materials
- Wall Partition Connections
- Structural Calculations for Lateral Loads
- Exiting Issues Relating to Wall Partitions
- 20-Minute Fire-Rated Door Assemblies
- Collaboration
- Accessibility Standards

Knowledge Areas

The performance criteria used to develop the exam questions, with a complete description of the objective of each criteria and reference material utilized to document the questions, is provided in the following sections for each of the eight knowledge areas.

I. Interior Designers' Scope of Practice Regarding Wall Partitions

Objective

To test the candidate's knowledge to recognize conditions which are beyond the scope of practice of the registered interior designer, such as fire-rated assemblies and vertical loads on partitions.

1. Demonstrate ability to recognize a fire-rated assembly in an existing building.
2. Demonstrate ability to recognize limitations when confronted with an existing fire-rated assembly. For example, a registered interior designer cannot penetrate a fire-rated assembly with windows, doors with a rating in excess of 20 minutes, ducts, mail drops or boxes, recessed or semi-recessed fixtures.
3. Demonstrate ability to recognize, in new construction, when a design of interior space requires a rated assembly due to:
 - a. Occupant load
 - b. Allowable area
 - c. Occupancy type
 - d. Sprinklers
 - e. Exiting
 - f. Type of construction
 - g. Separated versus non-separated use designation
4. Demonstrate ability to recognize when a partition is a structural load-bearing partition.
5. Demonstrate ability to recognize when a partition is supporting a ceiling.
6. Demonstrate ability to recognize when a new or existing partition is being required to support a load. For example, supporting lateral files, overhead cabinets, etc. from a new or existing partition.
7. Demonstrate ability to recognize when a guard or handrail is required.

Reference Material

- Chapter 623 of Nevada Revised Statutes 2006
- Rules and Regulations as of August 2006
- 2006 International Building Code
- Architectural Graphic Standards, Ramsey/ Sleeper, Tenth Edition

II. Wall Partition Construction Materials

Objective

To test the candidate's knowledge of the design of partitions, relative to wall assemblies, in certain types of buildings and occupancies.

1. Demonstrate ability to identify and detail partition materials, including glazing systems used in various types of non-rated, non-load bearing walls.
2. Demonstrate ability to identify standard graphic conventions used to describe materials used in non-rated, non-load bearing partitions.
3. Demonstrate ability to identify what fire protection requirements are incorporated into rated and non-rated partition systems.
4. Demonstrate ability to identify various types of gypsum board products incorporated into partition systems.
5. Demonstrate ability to identify backing methods utilized to support wall accessories.

Reference Material

- 2006 International Building Code
- Gypsum Association Fire Resistance Design Manual, Gypsum Systems, 18th edition
- Building Construction Illustrated, Francis D.K. Ching, 1975

III. Wall Partition Connections

Objective

To test the candidate's knowledge of wall partition connections.

1. Demonstrate ability to detail the following floor conditions:
 - a. Floor to ceiling wood or metal stud partition to slab on grade.
 - b. Floor to ceiling wood or metal stud partition to concrete slab above grade.
 - c. Floor to ceiling wood or metal stud partition to wood floor.
 - d. Wood or metal stud free-standing partition to slab on grade.
2. Demonstrate ability to detail the following ceiling connections:
 - a. Wood or metal stud to suspended gypsum board ceiling.
 - b. Wood or metal stud to suspended lay-in ceiling.
 - c. Wood stud partition to open wood structure.
 - d. Metal stud partition to metal deck.
 - e. Continuity and termination – ceiling connections.
3. Demonstrate ability to detail the following wall connections:
 - a. Wood or metal stud partition to wood or metal stud wall.

Reference Material

- 2006 International Building Code
- Gypsum Association Fire Resistance Design Manual, Gypsum Systems, 18th edition
- Building Construction Illustrated, Francis D.K. Ching, 1975
- Architectural Graphic Standards, Ramsey/ Sleeper, Tenth Edition

IV. Structural Calculations for Lateral Loads

Objective

To test the candidate's ability to demonstrate familiarity with codes and calculations related to appropriate lateral loads.

1. Demonstrate ability to identify glazing material types, support and framing requirements for:
 - a. Flat glass
 - b. Glass block
2. Demonstrate ability to identify veneer support and installation requirements.
3. Demonstrate ability to determine required structural properties based on International Building Code and manufacturers' data.
4. Demonstrate ability to identify loads and perform simple calculations to establish structural components for design.
5. Demonstrate ability to review and verify compliance with live load, dead load, wind and seismic requirements.

Reference Material

- 2006 International Building Code
- ASCE/ SEI: Minimum Design Loads for Buildings and Other Structures – 2005

V. Exiting Issues Relating to Wall Partitions

Objective

To test the candidates' knowledge of requirements for exiting.

1. Demonstrate working knowledge of International Building Code requirements for calculating occupancy loads.
2. Demonstrate working knowledge of International Building Code requirements to calculate number and separation of exits.
3. Demonstrate knowledge of exiting requirements in multiple use buildings.
4. Demonstrate understanding of situations where exiting widths might be compromised and rendered non-compliant with building codes.

Reference Material

- 2006 International Building Code

VI. 20-Minute Fire-Rated Door Assemblies

Objective

To test the candidate's ability to design a 20-minute fire-rated door assembly and to recognize other rated assemblies.

1. Demonstrate ability to design a 20-minute fire-rated assembly with regard to the following:
 - a. Factory applied labels
 - b. Field modifications
 - c. Components of a fire-rated assembly
 - d. Glazing
 - e. Sprinklered/ non-sprinklered
 - f. General

Reference Material

- 2006 International Building Code

VII. Collaboration

Objective

To test the candidate's ability to evaluate a project's scope and to recognize the necessity to collaborate with one or two other professionals, or to determine that an architect is required when more than two other professional disciplines are necessary. To test the candidate's knowledge to know the scope of practice as a registered interior designer in Nevada.

1. Demonstrate ability to recognize the necessity to collaborate with a mechanical engineer.
2. Demonstrate ability to recognize the necessity to collaborate with an electrical engineer.

3. Demonstrate ability to recognize the necessity to collaborate with a structural engineer.
4. Demonstrate ability to recognize the necessity to collaborate with an architect.
5. Demonstrate ability to recognize the necessity for architect as lead professional where more than two other disciplines are required.

Reference Material

- Chapter 623 of Nevada Revised Statutes 2006
- Rules and Regulations as of August 2006

VIII. Accessibility Standards

Objective

To test the candidate's ability to recognize and apply both federal and local accessibility standards to his/ her projects.

1. Demonstrate ability to recognize when and where a building is required to be accessible.
2. Demonstrate ability to identify what elements are required to be accessible.
3. Demonstrate ability to specify and design complying accessible facilities in accordance with adopted standards.

Reference Material

- 2006 International Building Code
- ANSI A117.1-2003