

Hospital Inspector of Record

**“How to Apply and Prepare
for the IOR Exam”**



Agenda

- What is an IOR?
- What are the minimum qualifications?
- How to apply for the IOR exam
- Documents to include with the application
- Reasons why an application would be denied
- What is the exam format?
- COVID-19 precautions
- How to best prepare for the exam
- What are the ABCs of the A, B, and C exam?
- What happens after the exam?
- Renewal of IOR certification
- Questions and answers



What is an IOR?

Hospital Inspector of Records (IORs) are:

- Certified by OSHPD
- Employed by a hospital governing board or authority
- Approved by the architect / engineer in responsible charge and OSHPD being satisfactory to inspect a specific project.



What is an IOR? (Cont.)

Inspector of Records (IORs) are independent **hospital inspectors** who are certified by OSHPD's Facilities Development Division (FDD). Their job is to provide competent, adequate and continuous inspection of all phases of the hospital construction process to assure that the work is being done in accordance with OSHPD approved plans and applicable codes.



What are IOR's allowed to inspect?

The differences between A, B, and C certifications (CAC 7-200):

Class "A" Hospital Inspector may inspect all areas of construction, including: architectural, mechanical, plumbing, electrical, fire and life safety, and structural elements.

Class "B" Hospital Inspector may inspect only the following areas of construction: architectural, mechanical, plumbing, electrical, fire and life safety, and anchorage of nonstructural elements. **Not Structural**

Class "C" Hospital Inspector may inspect one or more areas of construction specialty, including but not limited to the areas listed in [Section 7-204\(c\)](#), but may not inspect the complete scope of construction authorized for "A" or "B" inspectors.



What are the minimum qualifications?

CAC 7-204. Minimum qualification for examination

- An applicant must meet the following criteria to be eligible to participate in the certification examination for a Class "A," "B," or "C" Hospital Inspector:



What are the minimum qualifications?

Class "A" Hospital Inspector Exam

- High school graduation or the equivalent,
- AND**
- Six(6) years experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of major structural and nonstructural systems and components of buildings
- Note: Experience in subsection (a) 1 may be substituted with college education with major work in architecture, engineering, building inspection and/or construction on a year-for-year basis for a maximum of two years;

OR



What are the minimum qualifications?

Class "A" Hospital Inspector Exam

- Possess a valid California registration/license as a mechanical, electrical, or civil engineer

AND

- Two (2) years experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of major structural and nonstructural systems and components of buildings

OR



What are the minimum qualifications?

Class "A" Hospital Inspector Exam

- Two (2) years of working experience as a Class "B" Hospital Inspector of significant scope and complexity (determined by OSHPD);

OR

- Possess a valid California registration/license as a structural engineer or a valid California license as an architect.



What are the minimum qualifications?

Class "B" Hospital Inspector Exam

- High school graduation or the equivalent,
AND
- Four(4) years experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection or inspection supervision
 - Note: Experience in subsection (a) 1 may be substituted with college education with major work in architecture, engineering, building inspection and/or construction on a year-for-year basis for a maximum of two years;

OR



What are the minimum qualifications?

Class "B" Hospital Inspector Exam

- Possess a valid California registration/license as a civil engineer

AND

- Two (2) years experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of more than one major structural or nonstructural system of buildings (structural, mechanical, electrical or plumbing);

OR



What are the minimum qualifications?

Class “B” Hospital Inspector Exam:

- Possess a valid California registration/license as a structural, mechanical or electrical engineer or a valid California license as an architect;

OR

- Possess a valid certification in all four categories
 - ICC certification as a California Commercial Building Inspector,
 - ICC certification as a California Commercial Electrical Inspector,
 - IAPMO certification as a California Plumbing Inspector,
 - IAPMO certification as a California Mechanical Inspector



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

- High school graduation or the equivalent,
AND
- Four (4) years experience four years experience involving commercial or institutional building projects as the representative in testing, inspection or observation of construction for an architect, engineer, owner, local building official, local fire authority, testing lab, specialty contractor or general contractor and must possess valid certification issued by an approved organization.
 - Note: Experience in subsection (a) 1 may be substituted with college education with major work in architecture, engineering, building inspection and/or construction on a year-for-year basis for a maximum of two years;
OR



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

- Possess a valid California registration/license engineer;

AND

- Two (2) years experience involving building projects as an architect's, engineer's, owner's, local building official's, local fire authority's, specialty contractor's or general contractor's representative in testing inspection or observation of construction

AND

- Must possess at least one valid certificate issued by an approved organization

OR



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

- Possess a valid California registration/license as a civil, mechanical or electrical engineer or a valid California license as an architect;

AND

- Must possess at least one valid certificate issued by an approved organization

OR



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

11 Specialties

- **Accessibility** – Division of the State Architect Certification as a Certified Access Specialist (CASp)
- **Anchorage/Bracing** of Nonstructural Components – Certification to be administered by the Office
- **Electrical** – International Code Council (ICC) certification as a California Commercial Electrical Inspector (I2)



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

- **Fire Alarm** – National Institute for the Certification of Engineering Technologies (NICET) certification in “Fire Alarm Systems, Level III” or International Code Council (ICC) certification as a Commercial Fire Alarm Inspector (I2)
- **Fire Resistive Construction** – International Code Council (ICC) certification as a California Commercial Building Inspector (I1)



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

- **Framing and Drywall** – International Code Council (ICC) certification as a California Commercial Building Inspector (I1)
- **Inspection and Testing of Water Based Systems** – National Institute for the Certification of Engineering Technologies (NICET) certification in “Inspection and Testing of Water Based Systems, Level III



What are the minimum qualifications?

Class "C" Hospital Inspector Exam

- **Mechanical** – International Association of Plumbing and Mechanical Officials (IAPMO) certification as a California Mechanical Inspector
- **Medical Gas Systems** – National Inspection Testing Certification (NITC) Certification as Medical Gas Inspector 6020
- **Plumbing** – International Association of Plumbing and Mechanical Officials (IAPMO) certification as a California Plumbing Inspector
- **Roofing** – International Code Council (ICC) certification as a California Commercial Building Inspector (I1)





How to Apply for the IOR Exam



How to apply for the IOR exam

- Meet the Minimum Qualifications for the exam.
- Use the application currently posted on our website.
- Attach required supporting documents.
- Send application to correct OSHPD address.
- Include an Application Review Fee of \$100.00 via cashier's check/money order. (On-line payments currently N/A.)
- Once approved, pay \$300 exam fee.
- Refer to Checklist



Hospital Inspector Application Checklist

- HOSPITAL INSPECTOR CERTIFICATION APPLICATION.** The application shall include the exam title (A, B or C), preferred examination location, applicant's name, mailing address, telephone number and email address.
- HOSPITAL INSPECTOR CERTIFICATION APPLICATION QUALIFICATIONS MATRIX.** This form should be completed by the applicant to identify the inspector Class for which they are interested in applying and the Code Section which applies to their qualifications as defined in CAC Section 7-204.
- HOSPITAL INSPECTOR CERTIFICATION APPLICATION EDUCATION AND CERTIFICATION FORM.** When supplementing or substituting education for the required experience outlined in CAC Section 7-204(a)(1) or 7-204(b)(1).
- HOSPITAL INSPECTOR WORK VERIFICATION FORM.** This form attached to a letter provided by a former or current and/or previous employer(s) regarding each job which meets the minimum qualifications for the certification examination.
- HOSPITAL INSPECTOR EXAM FEE PAYMENT FORM.**
- HOSPITAL INSPECTOR EXPERIENCE FORM.** Outlines all qualifying experience for certification required by the CAC Section 7-204 (attached). This form is not required when the applicant qualifies based on registration/license as an architect or engineer.



HOSPITAL INSPECTOR CERTIFICATION APPLICATION QUALIFICATIONS MATRIX

<p>Please identify the inspector class you are interested in applying for below and identify which of the qualifying methods you will use to certify you meet the minimum requirements.</p>		
<p>Class “A” Hospital Inspector May inspect all areas of construction This includes Architectural, Mechanical, Plumbing, Electrical, Fire and Life Safety and Structural elements.</p>		
	Qualification Method 1	Required Supporting Documents
<input type="checkbox"/>	<p>High school graduation or the equivalent and six years’ experience involving building projects of Type I or II construction as an architect’s, engineer’s, owner’s, local building official’s or general contractor’s representative in technical inspection of major structural and nonstructural systems and components of buildings. [Note: Experience in subsection (a) 1 of the California Admin. Code Title 24, Part 1, Article 19, Section 7-204 may be substituted with college education with major work in architecture, engineering, building inspection and/or construction on a year- for-year basis for a max. of two years.]</p>	<ul style="list-style-type: none"> Highschool transcripts or copy of High School Equivalency Certificate. Work verification form(s) showing <u>six years</u> of experience involving Type I or II construction as an architect’s, engineer’s, owner’s, local building official’s or general contractor’s representative in technical inspection of major structural and nonstructural systems and components of buildings; or



Class A continued...

Qualification Method 2		Required Supporting Documents
<input type="checkbox"/>	Possess a valid California registration/license as a mechanical, electrical, or civil engineer and <u>two years</u> experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of major structural and nonstructural systems and components of buildings;	<ul style="list-style-type: none"> • Copy of valid California registration/license as a mechanical, electrical, or civil engineer • Work verification form(s) showing <u>two years</u> of experience involving Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of major structural and nonstructural systems and components of buildings; or
Qualification Method 3		Required Supporting Documents
<input type="checkbox"/>	<u>Two years</u> of satisfactory performance as a Class "B" Hospital Inspector of Record on hospital projects of significant scope and complexity as determined by OSHPD;	<ul style="list-style-type: none"> • Copy of valid Class "B" certification • Work verification form(s) showing <u>two years</u> of experience working as a Class "B" OSHPD inspector; or
Qualification Method 4		Required Supporting Documents
<input type="checkbox"/>	Possess a valid California registration/license as a structural engineer or a valid California license as an architect.	<ul style="list-style-type: none"> • Copy of valid California registration/license as a structural engineer or architect; or

Revised January 2020

Name:





Class "B" Hospital Inspector	
May inspect only architectural, mechanical, plumbing, electrical, fire and life safety, and anchorage of nonstructural elements.	
Qualification Method 1	Required Supporting Documentation
<input type="checkbox"/> High school graduation or the equivalent and <u>four years</u> ' experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of major structural and nonstructural systems and components of buildings. [Note: Experience in subsection (b) 1 of the California Administrative Code Title 24, Part 1, Article 19, Section 7-204 may be substituted with college education with major work in architecture, engineering, building inspection and/or construction on a year-for-year basis for a maximum of two years.];	<ul style="list-style-type: none">• Highschool transcripts or copy of High School Equivalency Certificate.• Work verification form(s) showing <u>four years</u>' experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of major structural and nonstructural systems and components of buildings; or
Qualification Method 2	Required Supporting Documents
<input type="checkbox"/> Possess a valid California registration/license as a civil engineer and <u>two years</u> ' experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of more than one major structural or nonstructural system of buildings (structural, mechanical, electrical or plumbing);	<ul style="list-style-type: none">• Copy of valid California registration/license as a civil engineer• Work verification form(s) showing <u>two years</u>' experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's or general contractor's representative in technical inspection of more than one major structural or nonstructural system of buildings (structural, mechanical, electrical or plumbing); or



Class B continued...

Qualification Method 3		Required Supporting Documents
<input type="checkbox"/>	Possess a valid California registration/license as a structural, mechanical or electrical engineer, or a valid California license as an architect;	<ul style="list-style-type: none"> • Copy of a valid California registration/license as a structural, mechanical or electrical engineer, or a valid California license as an architect; or
Qualification Method 4		Required Supporting Documents
<input type="checkbox"/>	Possession of valid certification in all of the following: California Commercial Building Inspector, California Commercial Electrical Inspector, IAPMO certification as a California Plumbing Inspector and California Mechanical Inspector.	<ul style="list-style-type: none"> • Copies of valid ICC certifications in the following categories: <ul style="list-style-type: none"> • Certification as a California Commercial Building Inspector (I1) • California Commercial Electrical Inspector (I2), • Copies of valid IAPMO certifications in the following categories: <ul style="list-style-type: none"> • California Plumbing Inspector • California Mechanical Inspector;

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Class "C" Hospital Inspector	
May inspect on or more areas of construction specialty, including but not limited to the areas listed in Section 7-204(c). A Class C Hospital Inspector may not inspect complete scope of construction authorized for Class "A" or "B" inspectors.	
Qualification Method 1	Required supporting Documentation
<input type="checkbox"/> High school graduation or the equivalent and <u>four years'</u> experience involving commercial or institutional building projects as the representative in testing, inspection or observation of construction for an architect, engineer, owner, local building official, local fire authority, testing lab, specialty contractor or general contractor and must possess valid certification issued by an organization specified in the California Administrative Code Title 24, Part 1, Article 19, Section 7-204(c). [Note: Experience in subsection (c)(1) may be substituted with college education with major work in architecture, engineering, building inspection and/or construction on a year-for-year basis for a maximum of two years.];	<ul style="list-style-type: none">• Highschool transcripts or copy of High School Equivalency Certificate.• Work verification form(s) showing <u>four years'</u> experience involving building projects as the representative in testing, inspection or observation of construction for an architect, engineer, owner, local building official, local fire authority, testing lab, specialty contractor or general contractor• Copies of a valid certificate(s) issued by one or more of nationally recognized organizations listed in the California Administrative Code Title 24, Part 1, Article 19, Section 7-204(c)4; or



Class C continued...

Qualification Method 2		Required supporting Documentation
<input type="checkbox"/>	<p>Possess a valid California registration/license as an engineer and <u>two</u> years' experience involving building projects as an architect's, engineer's, owner's, local building official's, local fire authority's, specialty contractor's or general contractor's representative in testing inspection or observation of construction and must possess at least one valid certificate issued by an organization that is listed or described in California Administrative Code Title 24, Part 1, Article 19, Section 7-204(c);</p>	<ul style="list-style-type: none"> • Copy of valid California registration/license as a civil engineer • Work verification form(s) showing <u>two years'</u> experience involving building projects of Type I or II construction as an architect's, engineer's, owner's, local building official's, local fire authority's, specialty contractor's or general contractor's representative in testing inspection or observation of construction • Copies of a valid certificate(s) issued by one or more of nationally recognized organizations listed in the California Administrative Code Title 24, Part 1, Article 19, Section 7-204(c)4; or
Qualification Method 3		Required supporting Documentation
<input type="checkbox"/>	<p>Possess a valid California registration/license as a civil, mechanical or electrical engineer, or a valid California license as an architect and must possess at least one valid certificate issued by an organization specified in California Administrative Code Title 24, Part 1, Article 19, Section 7-204(c)4.</p>	<ul style="list-style-type: none"> • Copy of valid California registration/license as a civil engineer or architect • Copies of a valid certificate(s) issued by one or more of nationally recognized organizations listed in the California Administrative Code Title 24, Part 1, Article 19, Section 7-204(c)4;



HOSPITAL INSPECTOR EXPERIENCE FORM

(Must be printed or typed)

EXPERIENCE: <i>List all qualifying experience outlined in Title 24, Part 1, Article 19, Section 7-204 (a), (b) & (c). Be sure to complete one sheet per project (or portion of a project if experience gained on a large project needs to be subdivided to accurately portray all qualifying experience)</i>		
Name of Project:	Project Cost:	OSHPD Number (if any):
Employer Name, address and location <i>(Your employer is generally the entity who paid you; if not please explain):</i>		
Name of Supervisor <i>(Your supervisor is the individual who supervised your work and is familiar with the duties you performed):</i>		Supervisor Phone Number:
Facility Name & Address:		
Timeframe: From: _____ / _____ / _____ Month Day Year To: _____ / _____ / _____ Month Day Year	Hours Worked on This Project: Per Week: _____ Weeks Per Year: _____	Type of Construction: <input type="checkbox"/> TYPE I <input type="checkbox"/> TYPE III <input type="checkbox"/> TYPE V <input type="checkbox"/> TYPE II <input type="checkbox"/> TYPE IV
Representative of: <input type="checkbox"/> Architect <input type="checkbox"/> Local Building Official <input type="checkbox"/> Owner <input type="checkbox"/> Engineer <input type="checkbox"/> General Contractor		Type of Responsibility: <input type="checkbox"/> Technical Inspector <input type="checkbox"/> Inspection Supervisor



Project Description *(this section should provide a focused description of the project and shall include: number of stories, project square footage, type of facility i.e. hospital, school, commercial, or residential, construction type i.e. steel moment frame, cast concrete shear walls, masonry shear walls or plywood shear walls) and identify the work involved i.e. architectural, structural, mechanical, plumbing, electric etc.)*

Description of Duties *(this section should provide a focused description of your work as either: project inspector (hospital, school, etc.), project manager (responsible for coordination, scheduling, tracking, construction progress, construction issue resolution), project superintendent (supervision of subcontractors, construction staff, project scheduling, quality control etc.), construction (foreman, supervisor, laborer), testing tech. (sampling, handling, testing, etc.), special inspector (welding, concrete placement, masonry, etc.), governmental building inspector (elec. mech. plumb. struct. plan review, etc.), design (engineering, drafting, plan review, etc.)*



HOSPITAL INSPECTOR VERIFIER CERTIFICATION FORM
(Must be printed or typed)

Candidate's Name: _____ Certification Number(s) (if any): _____

Dates of Employment: From: _____ To: _____

Verifier Information:	
Name:	Title:
Name of Employer:	
Daytime Phone:	Email Address:
Verifier Professional Licenses/Certifications:	
License Number:	Title:
Project Name:	



Observation of Candidates Work:

Observation Occurred During:

Current Employment

Previous Employment

Dates:

From:

To:

Observation of the candidate occurred during my role as (Check all that apply):

Candidate's direct supervisor

Candidate's indirect supervisor/manager responsible for the candidate's work results/outcomes

Architect or Engineer on one of the candidate's projects

Governmental Authority:

Inspector supervisor for client

General Contractor

Other:



Required Documentation

- A completed application – make sure the application is signed and dated, all job experience dates are accurate.
- Copy of High School Diploma or Equivalent.
- Certificates or transcripts indicating educational courses completed which relate to the minimum qualifying requirements.
- Hospital Inspector Verifier Certification Form completed and signed by a recognized representative from a present and/or past employer regarding any job which meets the minimum qualifications – must include the applicant's name, dates of employment, duties performed, and employer's phone number for verification.



Reasons an Application is Denied

- Incomplete application.
- Inaccurate dates of employment.
- Missing documentation (e.g., high school transcripts or diploma, verifier forms, certificates).
- Submitted false information. (**We verify work experience.**)
- Not enough years of experience.
- Didn't submit \$100.00 "Application Fee"



What is the exam format?

Class A IOR Exam

- Open Book Exam
 - Code Knowledge:
 - 80 questions
 - To be answered in 4 hours
 - Weighted on Administrative Regulation and Structural Discipline
 - Plan Reading:
 - 80 questions
 - To be answered in 4 hours
 - Weighted on Structural Discipline



What is the exam format?

Class B IOR Exam

- Open Book Exam
 - Code Knowledge:
 - 80 questions
 - To be answered in 4 hours
 - Weighted on Administrative Regulation
 - Plan Reading:
 - 40 questions
 - To be answered in 2 hours
 - Not weighted on any one discipline



What is the exam format?

Class C IOR Exam

- Open Code Book Exam
 - 20 Admin
 - 20 Anchorage & Bracing (if applicable)
 - 1 hour for each
 - Evenly weighed for Administrative Regulation and Anchorage and Bracing (if applicable)



What is the exam format?

COVID-19 Precautions

- Elevators are limited to 2 passengers per car
- 10 examinees per session
- Exam stations are spaced at least 6 feet apart
- OSHPD staff and examinees must wear PPE at all times
- Computer equipment and materials are thoroughly disinfected before and after each exam
- Examinees are required to complete an “Exam Participation Waiver”





How to Prepare for the IOR Exam



How can you best prepare for the exam?

- Code Knowledge
 - High level study of the Codes.
 - Gather all applicable code books and reference materials you will need.
 - Review table of contents to familiarize yourself with how to find different areas of interest quickly
 - Highlight key code section titles that include a health facilities content
 - Tab each code book for quick and easy navigation to key sections related to health facilities
 - Talk with others that have taken the test to understand what to expect
 - Use the TIO template as a guide for important items to know
 - Commit time and energy to study for the exam every day



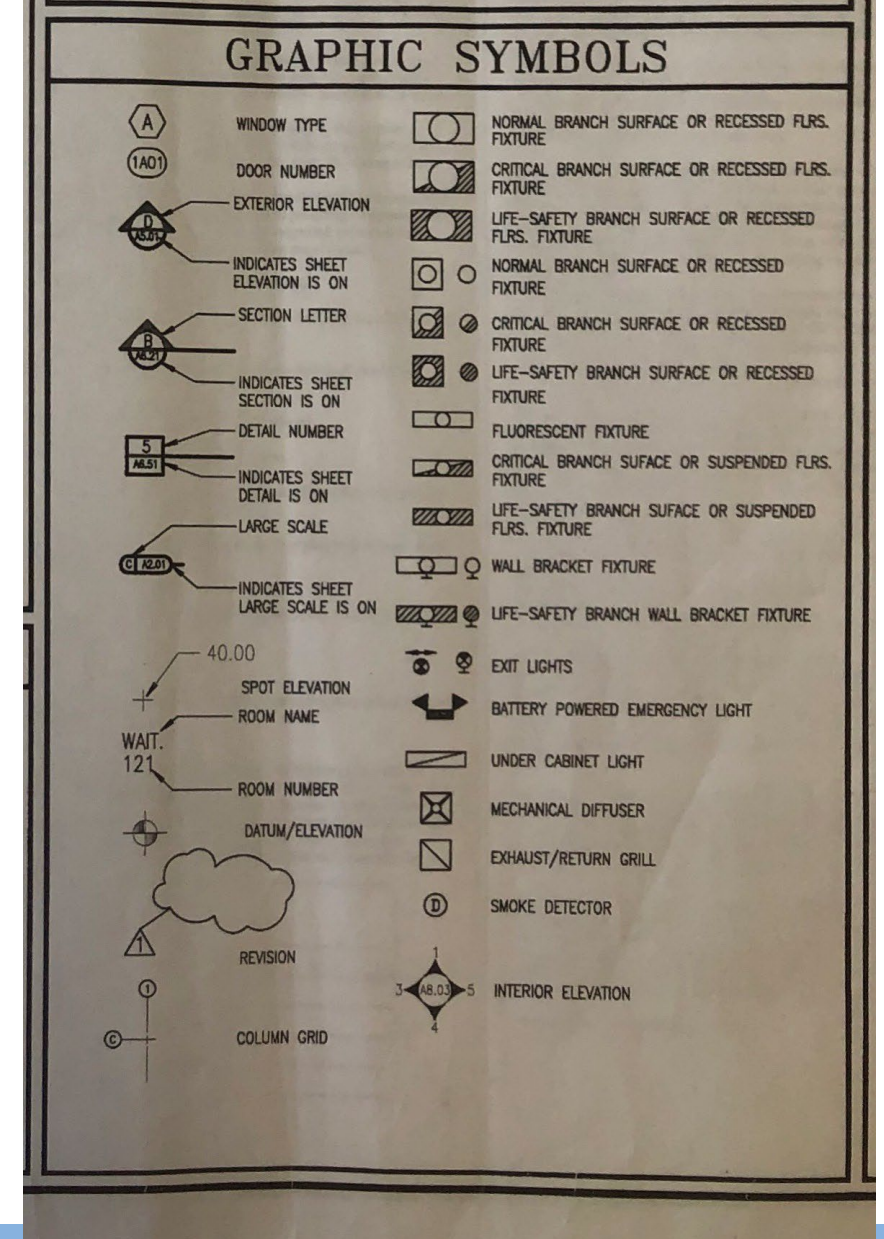
How can you best prepare for the exam?

- Plan Reading
 - Understand the general organization of plans
 - Study the organization of plans from projects on which you have worked
 - Familiarize yourself with the Table of Contents on the Title Sheet
 - Understand the meaning of project symbols and abbreviations
 - Ask questions of others about any areas of plan reading that you need to strengthen
 - Commit time and energy to study plan reading every day to prepare for the exam






























How can you best prepare for the exam?

- Know the Symbols
- Each sheet has different symbols, e.g.:
 - Cover sheet
 - Elec. Mech. Plumb. Struct....
 - Door / window schedules
 - Fire Prevention, etc.



How can you best prepare for the exam?

- Know Material Designations.
- Like prior slide, each trade has their own different symbols.

MATERIAL DESIGNATIONS	
ELEVATION/PLAN	
 CERAMIC TILE/ QUARRY TILE	 BRICK
 CONCRETE/PLASTER	 GLAZING
	 CONCRETE BLOCK
CEILING	
 LAY IN ACOUSTICAL TILE	 GYPSUM
 CLEAN ROOM TYPE LAY IN TILE	
SECTION	
 EARTH	 MARBLE
 ROCK	 GRANULAR FILL
 WOOD BLOCKING	 BRICK
 FINISHED WOOD	 TERRAZZO
 BATT INSULATION	 LIGHTWEIGHT CONCRETE
 CONCRETE BLOCK	 STRUCTURAL CONCRETE
 CUT STONE	 RIGID INSULATION
 METAL (LARGE SCALE)	 PLYWOOD (LARGE SCALE)
 PARTICLE BD.	 GYPSUM BD./ PLASTER/STUCCO
 EXTERIOR INSUL.	



How can you best prepare for the exam?

- Know the abbreviations.
- Like prior slides, each discipline has their own different symbols.

ABBREVIATIONS					
AB	ANCHOR BOLT	FD	FLOOR DRAIN	P	PAINT
ACT	ACOUSTICAL CEILING TILES	FDN	FOUNDATION	P. LAM	PLASTIC LAMINATE
A/C	AIR CONDITIONING	FE	FIRE EXTINGUISHER	PAF	POWDER ACTUATED FASTENER
ADDN	ADDITIONAL	FEC	FIRE EXTINGUISHER CABINET	PL	PLATE
ADH	ADHESIVE	FF	FINISHED FLOOR	PLBG	PLUMBING
ADJ	ADJACENT	FHC	FIRE HOSE CABINET	PLF	POUNDS PER LINEAL FOOT
ADJT	ADJUSTABLE	FN	FINISH	PLYWD	PLYWOOD
AFF	ABOVE FINISH FLOOR	FL	FLOOR	PR	PAIR
AHU	AIR HANDLING UNIT	FLG	FLANGE	PROJ	PROJECTION
ALUM	ALUMINUM	FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT
ALT	ALTERNATE	FND	FOUNDATION	PSI	POUNDS PER SQUARE INCH
ANCH	ANCHORAGE, ANCHOR	FO	FINISH OPENING	PT	PRESSURE TREATED
APPD	APPROVED	FRMG	FRAMING	PVC	POLYVINYL CHLORIDE
ARCH	ARCHITECT, (URAL)	FT	FOOT, FEET		
AUX	AUXILIARY	FTG	FOOTING	QT	QUARRY TILE
		FUR	FURRING		
B-	CONC. BEAM	FV	FIELD VERIFY	R	RISER
B/	BOTTOM OF	FW	FIRE VALVE CABINET	R/W	REINFORCED WITH
B/B	BACK TO BACK	FWC	FABRIC WALL COVERING	RD	RADIUS
B/O	BY OTHERS			RD	ROOF DRAIN
ED	BOARD	GA	GAUGE	REBR	REINFORCING BAR
BIT	BITUMINOUS, BITUMASTIC	GALV	GALVANIZED	REF	REFERENCE
BLDG	BUILDING	GC	GENERAL CONTRACTOR	REFG	REFERENCED
BLKG	BLOCKING	GL	GLASS	REINF	REINFORCEMENT
BL	BORROWED LIGHT	GYP	GYP-SUM	REQ'D	REQUIRED
BM	BEAM			RET	RETURN
BOT	BOTTOM	HC	HANDICAPPED	REV	REVISION
BRDG	BRIDGING	HK	HOOK	RM(S)	ROOM(S)
BRG	BEARING	HM	HOLLOW METAL	RO	ROUGH OPENING
BLK	BLOCK	HORIZ	HORIZONTAL	RP	RADIUS POINT
BTWN	BETWEEN	HP	HIGH POINT	RT	RIGHT
BSMT	BASEMENT	HSB	HIGH STRENGTH BOLT	RTU	ROOF TOP UNIT
		HT	HEIGHT		
C	CHANNEL	ID	INSIDE DIAMETER	S	SOUTH
CAB	CABINET	IF	INSIDE FACE	SA	SLAB BOLSTER
CANT	CANTILEVER	IN	INCH	SB	SLEEVE ANCHOR
CEN	CENTER, ED	INCL	INCLUDE, ING	SCHED	SCHEDULE
C/C	CENTER TO CENTER	INSUL	INSULATE, D, ION	SECT	SECTION
CHAM	CHAMFER	INT	INTERIOR	SF	SQUARE FEET
CIRC	CIRCULAR	INTERM	INTERMEDIATE	SHT	SHEET
CJ	CONTROL JOINT			SIM	SIMILAR
CL	CLOSET	JST	JOIST	SPEC	SPECIFICATIONS
CLG	CEILING	JT	JOINT	SP	SPACING
CLR	CLEAR			SQ	SQUARE
CMU	CONCRETE MASONRY UNITS			SSL	SHORT SLOTTED HOLES
CCL	COLLUMN	K	KIP	SS	STAINLESS STEEL
CONC	CONCRETE			STD	STANDARD
CONN	CONNECTION			STIFF	STIFFENERS
CONST	CONSTRUCTION	LAM	LAMINATE	STL	STEEL
CONT	CONTINUOUS	LAW	LAWATORY	STRUCT	STRUCTURAL
CONTR	CONTRACTOR	LB	POUND	SUSP	SUSPEND / SUSPENDED
COORD	COORDINATE	LG	LONG	SYMM	SYMMETRICAL
CPT	CARPET	LL	LINE LOAD		
CPFL	CARPET TILE	LLH	LONG LEG HORIZONTAL	T	TREAD
CSJ	CONSTRUCTION JOINT	LLV	LONG LEG VERTICAL	t	THICKNESS
CT	CERAMIC TILE	LKR	LOCKER	T/O	TOP OF
CTRD	CENTERED	LONG	LONGITUDINAL	T&B	TOP AND BOTTOM
		LP	LOW POINT	TC	TIE COLUMN
D	DEPTH, DISTANCE	LSH	LONG SLOTTED HOLES	TEMP	TEMPERED
DBA	DEFORMED BAR ANCHOR	LT	LIGHT	TERM	TERMINATE
DBL	DOUBLE	LTWT	LIGHTWEIGHT	TLT	TOILET
DBS	DOWEL BAR SPLICER			TOL	TOLERANCE
DEMO	DEMOLITION	MAS	MASONRY	TRAN	TRANSVERSE
DTL	DETAIL	MAX	MAXIMUM	TS	TUBE STEEL
DIA	DIAMETER	MB	MACHINE BOLT	TYP	TYPICAL
DIAG	DIAGONAL	MECH	MECHANICAL		
DM	DIMENSION	MEZZ	MEZZANINE	UNO	UNLESS NOTED OTHERWISE
DL	DEAD LOAD			UL	UNDERWRITERS LABORATORIES
DN	DOWN	MFR	MANUFACTURER		
DR	DOOR	MID	MIDDLE	VCT	VINYL COMPOSITION TILE
DSGN	DESIGN	MIN	MINIMUM	VERT	VERTICAL
DW	DRYWALL	MISC	MISCELLANEOUS	VWC	VINYL WALL COVERING
DWG(S)	DRAWING(S)	MJ	MASONRY JOINT	VP	VISION PANEL
DWL	DOWEL	MO	MASONRY OPENING		
		MR	MOISTURE RESISTANT	W	WIDTH, WEST, WIDE FLANGE
E	EAST	MTG	MOUNTING	W/	WITH
EA	EACH	MTL	METAL	W/O	WITHOUT
EB	EXPANSION BOLT			WD	WOOD
EE	EACH END	N	NORTH	WP	WORKING POINT
EJ	EACH FACE	NA	NOT APPLICABLE	WS	WATERSTOP
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	WSCT	WAINSCOT
EL	ELEVATION	NO	NUMBER	WT	WEIGHT
ELEV	ELEVATOR	NTS	NOT TO SCALE	WWF	WELDED WIRE FABRIC
ENGR	ENGINEER				
EP	ELECTRIC PANEL	O/O	OUT TO OUT		
EQ	EQUAL	OC	ON CENTER		
EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER		
ES	EXPOSED STRUCTURE	OF	OUTSIDE FACE		
EW	EACH WAY	OPNG	OPENING		
EW	ELECTRIC WATER COOLER	OPP	OPPOSITE		
EXH	EXHAUST	OSL	OUTSTANDING LEG		
EXP	EXPANSION	OVS	OVERSIZE HOLES		
EXIST	EXISTING				
EXT	EXTERIOR				



How can you best prepare for the exam?

- Know the drawing index

MASTER DRAWING INDEX:

<p>C-0 COVER SHEET G1.01 U.L. ASSEMBLIES G1.02 U.L. ASSEMBLIES G1.03 U.L. ASSEMBLIES</p> <p>ARCHITECTURAL PLANS A0.01 ARCHITECTURAL SITE PLAN A0.51 SITE DETAILS L1.01 LIFE SAFETY PLAN - 1ST FLOOR, OVERALL L1.01A LIFE SAFETY PLAN - 1ST FLOOR, PART A L1.01B LIFE SAFETY PLAN - 1ST FLOOR, PART B L1.02 LIFE SAFETY PLAN - 2ND FLOOR, OVERALL L1.02A LIFE SAFETY PLAN - 2ND FLOOR, PART A L1.02B LIFE SAFETY PLAN - 2ND FLOOR, PART B A1.00A OVERALL FLOOR PLAN - 1ST FLOOR A1.00B OVERALL FLOOR PLAN - 2ND FLOOR A1.01A DIMENSION PLAN - 1ST FLOOR, PART A A1.01B DIMENSION PLAN - 1ST FLOOR, PART B A1.02A DIMENSION PLAN - 2ND FLOOR, PART A A1.02B DIMENSION PLAN - 2ND FLOOR, PART B A1.51A NOTED PLAN - 1ST FLOOR, PART A A1.51B NOTED PLAN - 1ST FLOOR, PART B A1.52A NOTED PLAN - 2ND FLOOR, PART A A1.52B NOTED PLAN - 2ND FLOOR, PART B A1.61A EQUIPMENT PLAN - 1ST FLOOR, PART A A1.61B EQUIPMENT PLAN - 1ST FLOOR, PART B A1.62A EQUIPMENT PLAN - 2ND FLOOR, PART A A1.62B EQUIPMENT PLAN - 2ND FLOOR, PART B A2.01 ENLARGED PLANS & ELEVATIONS A2.02 ENLARGED PLANS & ELEVATIONS A2.21 ENLARGED PLANS: TOILETS A2.22 ENLARGED PLANS & ELEVATIONS A2.61 VERTICAL TRANSPORT: STAIRWELLS A2.71 VERTICAL TRANSPORT: ELEVATORS A3.01A CEILING PLAN - 1ST FLOOR, PART A A3.01B CEILING PLAN - 1ST FLOOR, PART B A3.02A CEILING PLAN - 2ND FLOOR, PART A A3.02B CEILING PLAN - 2ND FLOOR, PART B A3.51 CEILING DETAILS A4.01 ROOF PLAN A4.51 ROOF DETAILS A5.01 EXTERIOR ELEVATIONS A5.02 EXTERIOR ELEVATIONS - ENLARGED A5.03 EXTERIOR ELEVATIONS - ENLARGED A6.00 BUILDING SECTION A6.20 INTERIOR WALL TYPES/DETAILS A6.21 WALL SECTIONS A6.22 WALL SECTIONS A6.23 WALL SECTIONS A6.24 WALL SECTIONS A6.25 WALL SECTIONS A6.26 WALL SECTIONS A6.51 GENERAL DETAILS A6.52 GENERAL DETAILS A6.53 GENERAL DETAILS A6.54 GENERAL DETAILS A6.55 GENERAL DETAILS A6.56 GENERAL DETAILS A7.01 DOOR SCHEDULE A7.02 WINDOW ELEVATIONS A7.51 DOOR DETAILS A7.52 WINDOW DETAILS A8.01 CASWORK ELEVATIONS A8.02 CASWORK ELEVATIONS A8.03 CASWORK ELEVATIONS A8.51 CASWORK DETAILS A8.52 CASWORK DETAILS A8.53 CASWORK DETAILS</p> <p>F1.01A FURNISHING PLAN - 1ST FLOOR, PART A F1.01B FURNISHING PLAN - 1ST FLOOR, PART B F1.02A FURNISHING PLAN - 2ND FLOOR, PART A F1.02B FURNISHING PLAN - 2ND FLOOR, PART B F2.01A PATTERN PLAN - 1ST FLOOR, PART A F2.01B PATTERN PLAN - 1ST FLOOR, PART B F2.02A PATTERN PLAN - 2ND FLOOR, PART A F2.02B PATTERN PLAN - 2ND FLOOR, PART B</p>	<p>KITCHEN PLANS FS1.1 KITCHEN EQUIPMENT FS1.2 KITCHEN PLUMBING FS1.3 KITCHEN ELECTRICAL FS1.4 KITCHEN VENTILATION</p> <p>STRUCTURAL PLANS S1.0 GENERAL NOTES S1.1 FOUNDATION PLAN: PART A S1.2 FOUNDATION PLAN: PART B S2.1 FOUNDATION SECTIONS & DETAILS S2.2 FOUNDATION SECTIONS & DETAILS S2.3 FOUNDATION SECTIONS & DETAILS S3.1 SECOND FLOOR FRAMING PLAN: PART A S3.2 SECOND FLOOR FRAMING PLAN: PART B S3.3 ROOF FRAMING PLAN: PART A S3.4 ROOF FRAMING PLAN: PART B S4.1 FRAMING SECTIONS & DETAILS S4.2 FRAMING SECTIONS & DETAILS S4.3 FRAMING SECTIONS & DETAILS S4.4 EXTERIOR STUD WALL ELEVATIONS & DETAILS SS.1 GRAVITY COLUMN: SCHEDULE & DETAILS SS.2 FRAME ELEVATIONS SS.3 FRAME ELEVATIONS</p> <p>SS.8 BEAM/COLUMN CONNECTIONS</p> <p>MECHANICAL PLANS M0.01 HVAC SCHEDULES M0.02 HVAC SCHEDULES M0.03 HVAC SCHEDULES M0.04 HVAC VENTILATION TABLE M0.05 HVAC VENTILATION TABLE M0.06 HVAC VENTILATION TABLE M0.07 HVAC VENTILATION TABLE M2.01 HVAC NEW CONSTRUCTION-1st FLOOR: PART A M2.02 HVAC PIPING-1st FLOOR: PART A M2.03 HVAC NEW CONSTRUCTION-1st FLOOR: PART B M2.04 HVAC PIPING-1st FLOOR: PART B M2.05 ROOF PLAN: PART A M2.06 ROOF PLAN: PART B M2.07 LARGE SCALE MECHANICAL ROOM M2.08 LARGE SCALE SECTIONS M3.01 HVAC CONTROLS M3.02 HVAC CONTROLS M4.01 HVAC DETAILS M4.02 HVAC DETAILS M5.01 HVAC DETAILS M5.02 HVAC DETAILS M6.01 HVAC NEW CONSTRUCTION-2nd FLOOR: PART A M6.02 HVAC PIPING-2nd FLOOR: PART A M6.03 HVAC NEW CONSTRUCTION-2nd FLOOR: PART B M6.04 HVAC PIPING-2nd FLOOR: PART B</p> <p>PLUMBING PLANS P0.01 PLUMBING SCHEDULES P0.02 SITE PLAN: PLUMBING P1.01 UNDERGROUND PLUMBING-1st FLOOR: PART A P1.02 UNDERGROUND PLUMBING-1st FLOOR: PART B P1.03 PLUMBING-1st FLOOR: PART A P1.04 PLUMBING-1st FLOOR: PART B P1.05 PLUMBING-2nd FLOOR: PART A P1.06 PLUMBING-2nd FLOOR: PART B P2.01 MEDICAL GAS-1st FLOOR: PART A P2.02 MEDICAL GAS-1st FLOOR: PART B P2.03 MEDICAL GAS-2nd FLOOR: PART A P2.04 MEDICAL GAS-2nd FLOOR: PART B P3.01 LARGE SCALE PLUMBING: MECHANICAL ROOM P3.02 LARGE SCALE PLUMBING: KITCHEN P4.01 PLUMBING RISERS P5.01 PLUMBING DETAILS P5.02 PLUMBING DETAILS</p>	<p>ELECTRICAL PLANS E0.01 ELECTRICAL INDEX & SCHEDULES E0.02 ELECTRICAL LEGENDS E0.03 ELECTRICAL EQUIPMENT CONNECTION SCHEDULES E0.04 ELECTRICAL EQUIPMENT SCHEDULES E1.01 ELECTRICAL-SITE PLAN E2.01 LIGHTING-1st FLOOR: PART A E2.02 LIGHTING-1st FLOOR: PART B E2.03 LIGHTING-2nd FLOOR: PART A E2.04 LIGHTING-2nd FLOOR: PART B E3.01 POWER-1st FLOOR: PART A E3.02 POWER-1st FLOOR: PART B E3.03 POWER-2nd FLOOR: PART A E3.04 POWER-2nd FLOOR: PART B E4.01 SYSTEMS-1st FLOOR: PART A E4.02 SYSTEMS-1st FLOOR: PART B E4.03 SYSTEMS-2nd FLOOR: PART A E4.04 SYSTEMS-2nd FLOOR: PART B E5.01 ELECTRICAL-ROOF: PART A E5.02 ELECTRICAL-ROOF: PART B E6.01 LARGE SCALE ELECTRICAL E6.02 LARGE SCALE ELECTRICAL E7.01 ELECTRICAL POWER DISTRIBUTION: RISER E7.02 ELECTRICAL POWER DISTRIBUTION: NORMAL ONE LINE DIAGRAM E7.03 ELECTRICAL POWER DISTRIBUTION: ESSENTIAL ONE LINE DIAGRAM E7.04 ELECTRICAL POWER DISTRIBUTION: ESSENTIAL ONE LINE DIAGRAM E8.01 TELECOMMUNICATION DETAILS E8.02 ELECTRICAL DETAILS E9.01 ELECTRICAL PANELBOARD SCHEDULES: NORMAL SYSTEM E9.02 ELECTRICAL PANELBOARD SCHEDULES: ESSENTIAL SYSTEM E9.03 ELECTRICAL PANELBOARD SCHEDULES: ESSENTIAL SYSTEM</p> <p>FIRE SPRINKLER PLAN FP-1 COVER SHEET FP-2 FIRST FLOOR PART A PIPING PLAN FP-3 FIRST FLOOR PART B PIPING PLAN FP-4 FIRST FLOOR PART A RCP FP-5 FIRST FLOOR PART B RCP FP-6 SECOND FLOOR FIRE SPRINKLER PIPING PLAN FP-7 SECOND FLOOR RCP</p> <p>SEISMIC RESTRAINT SR A1 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A2 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A3 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A4 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A5 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A6 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A7 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A8 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A9 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A10 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A11 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR A12 SEISMIC RESTRAINT ARCHITECTURAL DETAIL SR G1 SEISMIC RESTRAINT GENERAL DETAIL SR M1 SEISMIC RESTRAINT MECHANICAL DETAIL SR M2 SEISMIC RESTRAINT MECHANICAL DETAIL SR M3 SEISMIC RESTRAINT MECHANICAL DETAIL SR M4 SEISMIC RESTRAINT MECHANICAL DETAIL SR M5 SEISMIC RESTRAINT MECHANICAL DETAIL SR E1 SEISMIC RESTRAINT ELECTRICAL DETAIL SR E2 SEISMIC RESTRAINT ELECTRICAL DETAIL SR E3 SEISMIC RESTRAINT ELECTRICAL DETAIL SR P1 SEISMIC RESTRAINT PLUMBING DETAIL</p>
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What are the ABCs of the A, B, and C exam?

- **Class A Inspector Exam**
May inspect all areas of construction; including structural.
 - The A Exam emphasizes Structural and Administrative Knowledge.
- **Class B Inspector Exam**
May inspect all areas of construction; excluding structural
 - The B Exam emphasizes Administrative Knowledge.

ARTICLE 19 CERTIFICATION AND APPROVAL OF HOSPITAL INSPECTORS

7-200. Administration of hospital inspector examination and certification.

(a) The Office shall test and certify inspectors in one or more of the following classes:

1. **Class "A"** Hospital Inspector may inspect all areas of construction, including: architectural, mechanical, plumbing, electrical, fire and life safety, and structural elements.
2. **Class "B"** Hospital Inspector may inspect only the following areas of construction: architectural, mechanical, plumbing, electrical, fire and life safety, and anchorage of nonstructural elements.
3. **Class "C"** Hospital Inspector may inspect one or more areas of construction specialty, including but not limited to the areas listed in Section 7-204(c)I, but may not inspect the complete scope of construction authorized for "A" or "B" inspectors.



What are the ABCs of the A, B, and C exam?

- Class C Inspector Exam
 - May not inspect the complete scope of construction
 - May inspect one or more areas of construction specialty, as certified
 - The C Exam emphasizes Administrative Knowledge



What are the ABCs of the A, B, and C exam?

This is not on the Class C IOR Exam. Refer to 2019 CAC

- Fire Alarm – NICET, Level III
- Fire Extinguishing Systems – NICET, III
- Fire Resistive Construction – ICC BIC
- Medical Gas Systems – NITC
- Plumbing – IAPMO Certification
- Mechanical – IAPMO Certification
- Electrical – ICC Certification
- Concrete – ICC Certification
- Masonry – ICC Certification
- Steel – ICC, Structural Steel Certification
- Welding – AWS Certification
- Framing and Drywall – ICC CBIC
- Roofing – NRCA
- Anchorage of Non-Structural Components
- Architectural



What happens after the exam?

- COMBINED Score for Code Knowledge and Plan Reading must be a minimum of 75% per Section.
- Exam results are made available within 4 to 6 weeks from the last exam date.
- Failure of more than one discipline (combined score) requires reapplication and exam after 6 months.
- Exam Retest is allowed for one failed section only.



What happens after the exam?

- Fail letters are sent; candidates who qualify for a “section retest” are notified immediately.
- Letters and ID badges are mailed to successful examinees.
- Successful examinees are eligible to become an IOR at the time of notification.
- Certified Hospital Inspector credentials are available for verification by the public on OSHPD’s Website.



What happens after the exam?

- “Section Retest” includes Code Knowledge and Plan Reading and is to be completed within two weeks of notification
- Review of completed exams is not allowed
- Failed exam scores in each section are provided in exam results notification
- Candidates who fail can reapply for an “Exam Retest” (code and plan reading) after six months

We regret to inform you that you were not successful in obtaining a passing score on the Class A Hospital Inspector Certification Examination. A combined score of 75% for each section of the exam is required for certification. Your final scores are as follows:

	Code	Plans	Combined	Total %
Administrative	17/20	N/A	N/A	85%
Architectural	9/10	12/13	21/23	91%
Structural	12/20	12/28	24/48	50%
Mechanical-Plumbing	9/10	9/13	18/23	78%
Electrical	7/10	8/13	15/23	65%
Fire and Life Safety	9/10	6/13	15/23	65%

You will be eligible to take a new exam no sooner than six months from the date of this exam. If you choose to retake the exam, you may submit an updated application with “RETEST” written on top of the front page. Supporting documents are not required. An examination fee of \$300 must also be included with your application. The final filing date for the next exam cycle is posted to the Hospital Inspection Service’s webpage at <https://oshpd.ca.gov/construction-finance/hospital-inspector-certification-program>.



IOR Recertification

7-211. Renewal of a hospital inspector certificate

- A Hospital Inspector shall participate in a recertification seminar and written exam within the three-year certification period. Prior to the expiration of the certification in order to renew and maintain valid certification.
- Submit a recertification exam fee of \$100 via cashier's check or money order.



IOR Recertification

7-202. Filing change of name, address or telephone number

- An applicant for the certification examination or a Hospital Inspector possessing a valid certificate issued by the Office, shall file name, mailing address or telephone number changes with the Office in Sacramento within 10 working days of that change. The information filed shall include both the new and former name, mailing address or telephone number.



Questions?



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