

California Architects Board Meeting

December 14, 2018

Tavi G. Popp, M.A., Research Manager

Heidi Lincer, Ph.D., Chief



This is what we do:

Provide professional psychometric expertise in examination development and validation services to DCA's boards, bureaus, and committees.



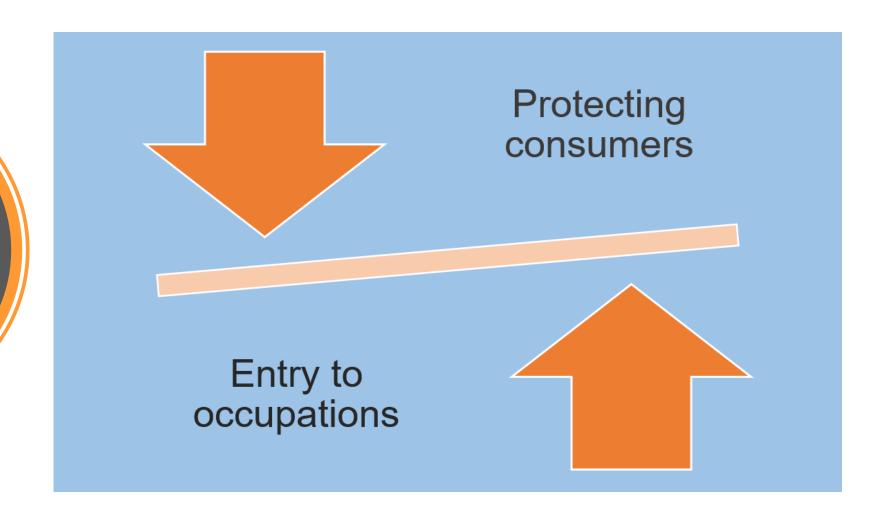
These are the Regulations, Standards, and Guidelines we follow:

- **➢ Business and Professions Code section 139**
- Principles for the Validation and Use of Personnel Selection Procedures (Society for Industrial and Organizational Psychology)
- Standards for Educational and Psychological Testing
 (American Educational Research Association, American
 Psychological Association, National Council on Measurement in Education)

California Licensed Architects National and State Examinations



Finding a balance through valid examinations

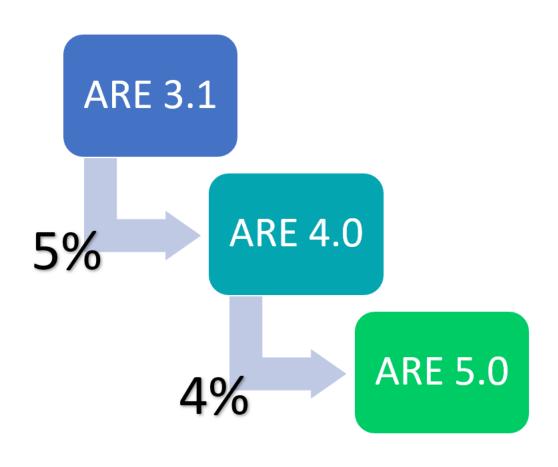


Some insights into the ARE pass rates



- Pass rate is higher (overall and for all divisions) for candidates who graduated from programs accredited by the National Architectural Accrediting Board (NAAB)
- Pass rate is higher for ARE 4.0, lower for ARE 5.0
- Pass rate varies by state

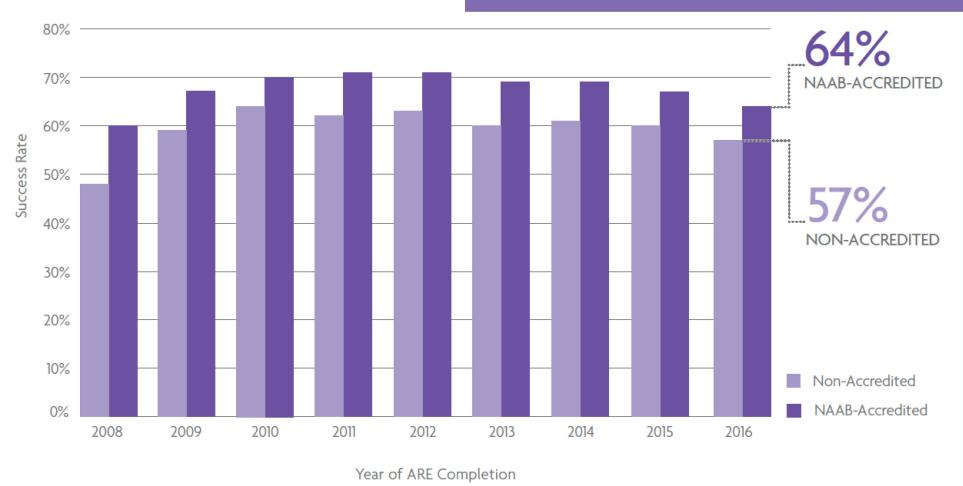
Examination Pass Rate Drop





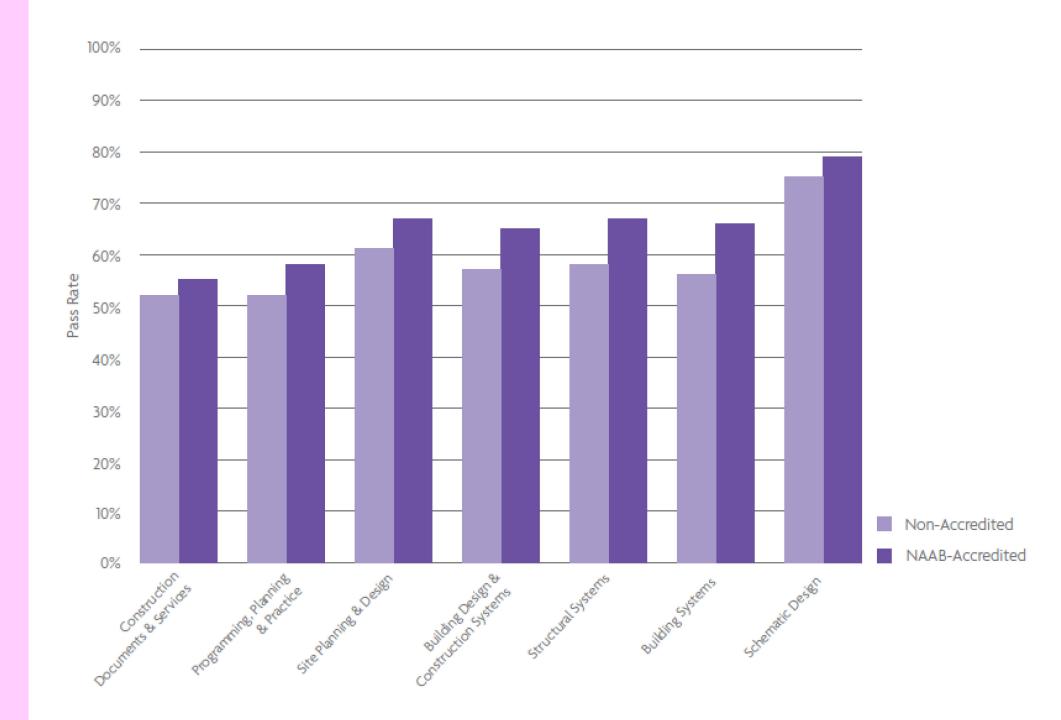






100%

90%



2017 **ARE 4.0 Pass Rates** for California candidates in percentages by quarter

A – Accredited

NA - Non-Accredited

	QUAR	TER 1	QUAR	TER 2	QUAR	RTER 3	QUAR	RTER 4
	Α	NA	Α	NA	Α	NA	Α	NA
Building Design & Construction Systems	62	59	59	56	55	47	64	67
Building Systems	63	64	58	63	66	45	57	31
Construction Documents & Services	50	48	47	49	46	32	47	42
Programming, Planning & Practice	51	43	47	39	51	54	51	36
Schematic Design	84	70	80	88	85	60	87	78
Site Planning & Design	65	56	67	55	63	70	54	41
Structural Systems	49	58	75	61	69	63	57	39

California







Massachusetts 69% (238) Illinois 66% (242) **New York** 61% (786) **Texas** 59% (349) California 57% (595)

A professional degree from a NAAB-accredited program is required.

Additional experience can be accepted as an alternative to the education requirement.

An architectural degree from a Canadian university certified by the CACB is accepted.

An EESA Evaluation of foreign education is accepted.

Completion of the AXP/IDP is required.

			Work experience
	Pass Rate (candidate count)	Accredited program required	accepted as alternative for education
Massachusetts	69% (238)	Yes	No
Illinois	66% (242)	Yes	No
New York	61% (786)	No	Yes
Texas	59% (349)	Yes	No
California	57% (595)	No	Yes

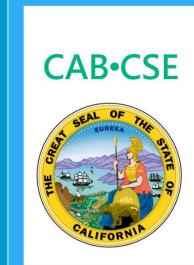
Programming, Planning & Prac 33% 37%				50,7	50,70
		_	Building Design & Const Syst	32%	34%
Construction Documents & Serv 32% 38% Programming, Planning & Prac 33% 37% Schematic Design 36% 34%			Building Systems	37%	42%
Programming, Planning & Prac 33% 37% Schematic Design 36% 34%			Construction Documents & Serv	32%	38%
Schematic Design 36% 34%			Programming, Planning & Prac	33%	37%
		RE	Schematic Design	36%	34%
Site Planning & Design 32% 40%			Site Planning & Design	32%	40%
Structural Systems 36% 38%			Structural Systems	36%	38%
		_			
Construction & Evaluation 39% 27%			Construction & Evaluation	39%	27%
Practice Management 37% 35%	RE 5.0		Practice Management	37%	35%
Programming & Analysis 31% 40%			Programming & Analysis	31%	40%
Project Dev & Documentation 25% 30%		DE	Project Dev & Documentation	25%	30%
Project Management 36% 35%			Project Management	36%	35%
Project Planning & Design 26% 29%			Project Planning & Design	26%	29%

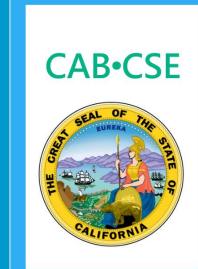
California candidates **NOT** holding degrees from NAABaccredited program

18

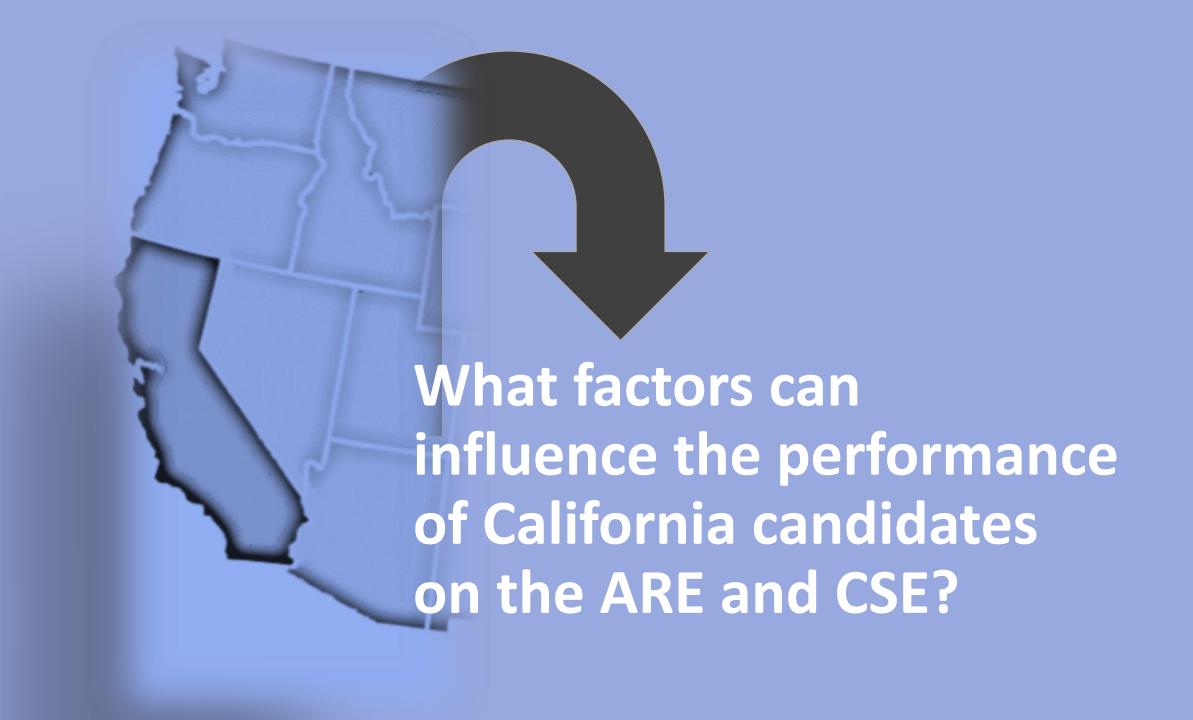
California Supplemental Examination **Pass Rates**

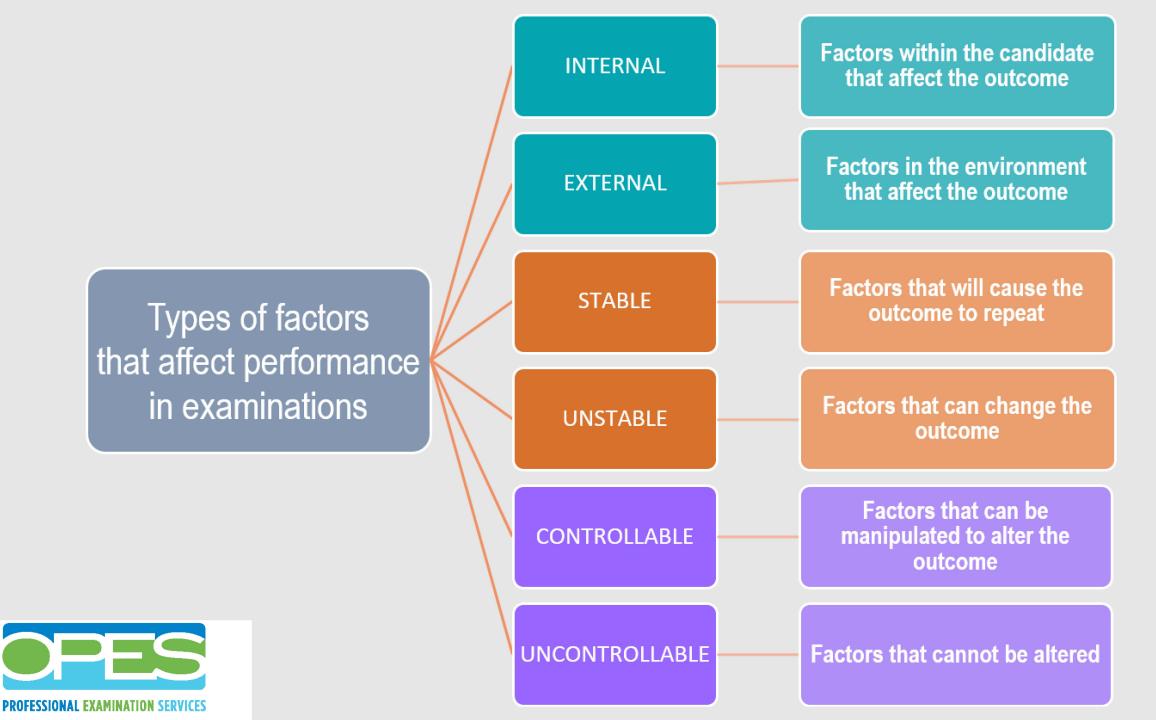
PROFESSIONAL EXAMINATION SERVICES





^{*} Not complete





Research points to these specific factors:

- ☑ College GPA
- ☑ Pre-licensing practice test
- **☑** Study habits
- ☑ College admission and retention policies
- ☑ Advanced degrees
- ☑ High school class size
- ☑ High school class rank
- **☑** SAT score



WHAT CAN OPES DO?

- 1. Develop examinations that are fair, valid, and legally defensible
- 2. Use input from recently licensed architects in all phases of examination development
- 3. Continue preventing artificial barriers to licensing during examination development and administration
- 4. Make public a sample of items that would be retired from the examination
- 5. Review and revise the study material, as needed, to be more focused
- 6. Ensure the passing score targets the candidate whose competence is minimally acceptable for entry level

Thank you!

Questions?

