# VIRTUAL MEETING GUIDELINES

Board Members and Guests,

Please mute your audio when you're not speaking:

- Use only one source of audio (computer OR phone).
  - Do not put your phone on hold.

Submit questions in the chat box when possible. The chat log will be saved as public record.

To request the floor: Please state your name then pause for acknowledgement from the Chair before proceeding.

> To make a motion: Please state your name and jurisdiction before making a first or second motion.

In accordance with State Statute, all votes shall be roll call.

Keep your points clear and concise.

# North Carolina Code Officials Qualification Board

### <u>AGENDA – July 26, 2022</u>

- Introduction / Roll Call / Conflict of Interest Reminder
- <u>Approve Minutes</u>
- <u>Recognize Fifth Level III Standard Certificate(s)</u>
- <u>Public Comment</u>
- <u>Committee Reports</u>
- On-Going Business
- <u>New Business</u>
- <u>Staff Report</u>
- <u>Election of Officers</u>
- Adjournment





### Staffed by NC Dept. of Insurance

# Introduction

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Chairman

Bill Thunberg Public member

- Introduction
- Roll call
- Ethics

Reminder

Changes to

the agenda?

### **Board Officers**

Vice Chairman County Elected Official - Fleming El-Amin, Secretary Commissioner Designee - Rob Roegner,

### Members

<u>Design Professionals</u> Architect - Mark Paterson Engineer - Mack Summey, PE

<u>Code Enforcement Officials</u> Code Official, County - Jeffrey Griffin Code Official, City - Michael Crotts Code Official, Fire Prevention - Thomas Bender

### <u>Local Government</u>

Elected Official, County - Danny Couch Elected Official, City - Bettie Parker Elected Official, City - Russell Fox Manager, City - Richard White

### Licensed Contractors

General - Andy Matthews General – Mark Smith Mech/Plumbing - Allen Kelly Electrical - James Steele

### Academic Institutions

UNC School of Government - Richard D. Ducker NCSU Engineering Faculty - Stephen Terry, PhD, PE NCAT Engineering Faculty - Stephanie Luster-Teasley, PhD NC Community College System - Karen Tikkanen

# Ethics / Conflict of Interest

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### **ETHICS AWARENESS & CONFLICT OF INTEREST REMINDER**

In accordance with the State Government Ethics Act, it is the duty of every NC Code Officials Qualification Board member to avoid both conflicts of interest and appearances of conflict.

Do any NC Code Officials Qualification Board members have any known conflict of interest or potential of conflict with respect to any matters coming before the NC Code Officials Qualification Board today?

If so, please identify the conflict or potential of conflict and refrain from any undue participation in the particular matter involved.

Let the minutes show that members of the Board who <u>are certified</u> <u>code officials</u> are reminded that the State Ethics Commission has cited the <u>potential</u> for a conflict of interest because they serve on the Board that licenses them. Board members should exercise appropriate caution in the performance of their public duties should issues involving their licenses or that of any of their employees come before the Board. This would include recusing themselves to the extent that their interests would influence or could reasonably appear to influence their actions.

# **Approve Minutes**

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# • April 26, 2022, regular meeting

Recognize 5<sup>th</sup> Level III Standard Certificate(s)

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- Ray Harrell, Fire Prevention, Level III issued 4/25/2022
- Wesley Keith, Fire Prevention, Level III issued 5/31/2022



# **Public Comment**

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# **Committee Reports**

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# **Standing Committees**

- Executive Committee
- Policies & Procedures
- Qualifications & Evaluation
- Education & Research

# **Special Committees**

- Investigation Review
- Rules Review Update

**Agenda** 

## **Executive Committee**

ChairmanBill ThunbergVice-ChairmanFleming El-AminSecretaryRob RoegnerPolicies and ProceduresRichard WhiteQualification and EvaluationThomas BenderEducation and ResearchKaren Tikkanen

## Meeting held May 20, 2022, minutes

## Strategic Plan FY 2022-2023

- Pool of qualified code officials, 1) Veterans, Inmates
- Goals
  - 1) Rules Review
  - 2) KPIs
  - 3) Joint meeting BCC

remote inspections, marketplace

# **Policies & Procedures**

### Chairman, Richard White

Richard D. Ducker Allen Kelly Rob Roegner James Steele Danny Couch Thomas Fox

## No meeting held.

# **Qualification & Evaluation**

### Chairman, Thomas Bender

Mark Smith Michael Crotts Fleming El-Amin Richard White Mark Patterson

## Meeting held July 21

## **Recommendations on 2 cases.**

- Applicant #1
- Applicant #2

# **Education & Research**

### **Chairwoman, Karen Tikkanen** Andy Matthews

Stephen Terry, PhD, PE Mack Summey, PE Stephanie Luster-Teasley, PhD

## No meeting held.

# **Investigation Review**

### Chairman, Jeff Griffin

Michael Crotts James Steele Rob Roegner

### Voluntary Settlement Agreement (VSA)

569 Lee (Thompson) - Whiteville

<u>Basis</u>

576 Halifax (Johnson) – Roanoke Rapids

### No Basis - Dismiss with Letter of Caution

917 Petty #3615 (Robison)920 Hutchison #4439 (Fellhofer)925 Daugherty #366 (Oakes)

### No Basis - Dismiss

565 Evans (Cohen) – Holden Beach
574 Reeves – Tatum (Robinson) – Hope Mills
578 Gaskins (Chambers) – Anson Co.

Meetings held June 6, 22 and July 14

**Recommended disposition of complaints.** 

# Recommend Bylaw change to make the IRC a standing committee.

5. The Investigation Review Committee shall review all investigation reports prepared pursuant to a consumer or board-initiated complaint; shall determine terms and conditions of proposed consent agreements; and shall make recommendations to the Board as to the disposition of cases. The IRC shall have authority to direct staff to initiate an investigation on behalf of the Board.

# **Rules Review and Update**

### Chairman, Rob Roegner

Michael Crotts James Steel Fleming El-Amin Richard Ducker

## Meetings held May 4 and June 7.

# **On-Going Business**

### <u>AGENDA</u>

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Legislative Update (Bills)

- •<u>\$372</u>
- •<u>\$329</u>
- S316
- H291
- H489
- H865
- H110
- H783 permit tech
- H366 remote insp
- H853 plan review
- H821
- H398

Legislative Update (SL)

• 2022-11 (S372)

• 2022-62

- 2021-192 (S329)
- 2021-117 (H366)

# **New Business**

### <u>AGENDA</u>

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# Staff Report

### <u>AGENDA</u>

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Executive Director - Mike Hejduk

Assistant Director – Beth Williams

**Certification - Terri Tart** 

**Examination - Rich Hall** 

Education – Jennifer Hollyfield

**Investigation - Sam Whittington** 

# Executive Director Mike Hejduk

FY 2021-2022 Annual Renewals (7/1)					
Code Officials	4,098				
Suspended CEOs	347				
Suspended Certificates 624					

Activity	Count
Applications	3,167
Military / Spouses <u>93B-2</u>	
Criminal history <u>93B-2</u>	
Board courses	189
Student	1,911
Exam eligibilities	1,530
Exams taken	1,329
Exams passed	860
Certificates issued	2,165
Complaints	15
Disciplinary actions	

### § 93B-2. Annual reports required; contents; open to inspection; sanction for failure to report.

- (a) No later than October 31 of each year, each occupational licensing board shall file electronically with the Secretary of State, the Attorney General, and the Joint Legislative Administrative Procedure Oversight Committee an annual report containing all of the following information:
  - (9a) The number of applicants for a license and, of that number, the number granted a license.
  - (9b) The number of applicants with a conviction record and, of that number, the number granted a license, denied a license for any reason, and denied a license because of a conviction.
  - (9c) The number of applicants with military training, the number granted a license, the number denied a license for any reason, and a summary of the reasons for denial. The information provided in accordance with this subdivision shall not disclose any identifying information of any applicant.
  - (9d) The number of applicants who are military spouses, the number granted a license, the number denied a license for any reason, and a summary of the reasons for denial. The information provided in accordance with this subdivision shall not disclose any identifying information of any applicant.
- (b1) No later than October 31 of each year, each occupational licensing board or State agency licensing board shall file electronically with the Secretary of the Department of Military and Veterans Affairs information collected pursuant to G.S. 93B-2(a)(9c) and (9d).
- (c) The reports required by this section shall be open to public inspection.
- (d) The Joint Legislative Administrative Procedure Oversight Committee shall notify any board that fails to file the reports required by this section. Failure of a board to comply with the reporting requirements of this section by October 31 of each year shall result in a suspension of the board's authority to expend any funds until such time as the board files the required reports. Suspension of a board's authority to expend funds under this subsection shall not affect the board's duty to issue and renew licenses or the validity of any application or license for which fees have been tendered in accordance with law. Each board shall adopt rules establishing a procedure for implementing this subsection and shall maintain an escrow account into which any fees tendered during a board's period of suspension under this subsection shall be deposited.
- (e) No later than October 31 of each year, each State agency licensing board shall file electronically with the Secretary of State, the Attorney General, and the Joint Legislative Administrative Procedure Oversight Committee an annual report containing all of the following information:
  - (1) The number of applicants for a license and, of that number, the number granted a license.
  - (2) The number of applicants with a conviction record and, of that number, the number granted a license, denied a license for any reason, and denied a license because of a conviction.
  - (3) The number of applicants with military training, the number granted a license, the number denied a license for any reason, and a summary of the reasons for denial. The information provided in accordance with this subdivision shall not disclose any identifying information of any applicant.
  - (4) The number of applicants who are military spouses, the number granted a license, the number denied a license for any reason, and a summary of the reasons for denial. The information provided in accordance with this subdivision shall not disclose any identifying information of any applicant.

	Total FY	1st QTR	2nd QTR	3rd QTR	4th QTR	Total FY
COQB	2020-2021	Jul - Sep	Oct - Dec	Jan - Mar	Apr - Jun	2021-2022
CEOs	4,210					4,136
Applications	2,704	756	762	848	1,202	3,261
Pre-Qualification	576	143	159	172	271	679
Probationary	1,186	379	342	427	562	20
Standard	942	243	269	249	369	1,038
Military/Spouses						
Criminal History						
Board courses	206	44	45	58	42	189
Students	1,884	409	439	683	441	1,972
Exam eligibilities	1,362	359	391	389	386	1,525
Exams taken	1,256	289	498	323	488	1,371
Exams passed	793	171	309	212	344	888
<b>Certificates Issued</b>	1,357	469	516	593	855	2,209
Probationary	725	296	279	217	522	1,327
Standard	632	173	237	376	333	882
Complaints		3	7	3	3	16
Disciplinary actions						

# COQB Program Effective and Efficient?

Roughly 20 working days per month X 12 months = 240 days x 8 hours / day = 1,920 hours

## <u>COQB</u>

1.65 applications per hour (or 0.61 hours per application ~ 36 minutes) 0.80 exam eligibilities per hour (or 1.25 hours per exam eligibility)

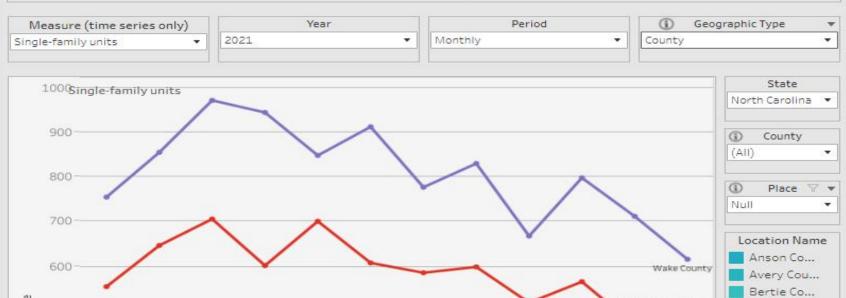
\*Exam eligibility determination takes twice as long, on average, versus application review. 1.13 certificates issued per hour

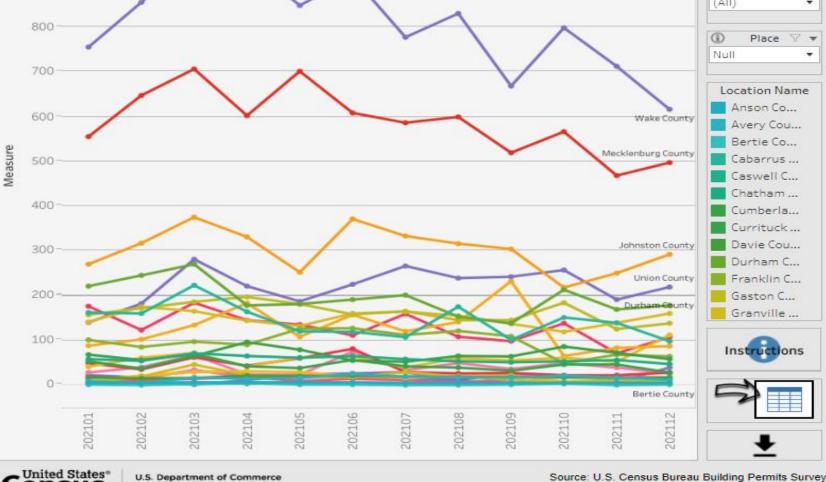
PER DAY (above per hour X 8 hours/day):13.2 applications review6.4 exam eligibilities9.04 certificates issued

# Building Permits

Single-family

### U.S. Census Bureau Building Permits Survey New Privately Owned Housing Unit Authorizations





U.S. CENSUS BUREAU

census.gov

<https://www.census.gov/construction/bps/>

# Separate Fire and Building

## FIRE

- Fire Code Inspection Requirements?
- Simple math
- 1 yr + (½) 2 yr + (1/3) 3 yr = total # inspections required
- Count building and occupancies
- County level aggregate

## BUILDING

- Driven by Planning & Development, construction
- Building Permits? KPI
- Inspect < 2 business days
- Remote inspections

# Fire "Goals" new position SL 2021-180 Engineer II

- Fire Marshal 101
- Count building and occupancies
- County level aggregate
- Community Risk Reduction 5 E's (CRR Plans)
  - Education
  - Engineering
  - Enforcement Fire Inspections
  - Economic Incentives
  - Emergency Response

# Certification Terri Tart

- Comity Applications
- Pre-Qualification
- ICC certificates



North Carolina Code Officials Qualification Board Staffed by the NC Department of Insurance

1202 Mail Service Center | Raleigh, NC 27699-1202 | tel: 919.647-0000 fax: 919.662-4414

**Prior Version** 

Date

CEO First, MI, Last Name Address City, State and Zip

Dear CEO Name, Candidate ID ####:

The Qualification Board has reviewed your Standard Certificate application for Building Inspector Level I, Electrical Inspector Level I, Mechanical Inspector Level I, and Plumbing Inspector Level I.

Your application for the trade(s) noted below is denied/holding for the following reasons:

Building Inspector Level I \* Holding for additional Information. Please provide at least one additional Building I project under the "trades exp" and then resubmit this application for final processing.

Electrical Inspector Level I \* Required course not completed for this trade/level. Please resubmit this application once course credit for El is shown in your account.

Mechanical Inspector Level I \* Required course not completed for this trade/level. Please resubmit this application once course credit for MI is shown in your account.

The Rules and Regulations, and a listing of standard inspection courses as well as other useful information can be found on our website at: www.ncdoi.com. This information is found under NCDOI.com, OSFM Sections, Engineering and Codes, then under NC Code Officials Qualification Board.

Your request for comity in Plumbing, Building, Electrical and Mechanical Level I has been denied, and will require you to take and pass the appropriate exams before certificates can be issued.

You are eligible to register for the Plumbing Inspector Level I exam for the State of North Carolina as of the following date(s):

Starting Exam Code Trade and Level 08/10/2020 PL1 Plumbing Level I

Exam approvals are sent out each night. Please wait 24 hours to contact PSI for registration. To schedule an exam, please call PSI at 1-800-733-9267. If you would like to register on-line instead, go to www.psiexams.com. More details and the exam description and outline can be found in the Candidate Information Bulletin at http://www.pdi.com/OSEWEregister.com/Candidate.com/OSEWEregister.com/Candidate.com/

http://www.ncdoi.com/OSFM/Engineering\_and\_Codes/Documents/COQB\_Documents/NC%20CE O%20Candidate%20Information%20Bulletin.pdf.

Please use your legal first and last name as it appears on your ID when registering. When arriving at the testing center, please have two forms of valid (non-expired) identification which bear your signature. One ID must have a photograph. Your name shown on the application form must exactly match the name on the photo ID. If proper identification is not provided, you will not be allowed to test and the exam fee will be forfeited.



### North Carolina Code Officials Qualification Board Staffed by the NC Department of Insurance

1202 Mail Service Center | Raleigh, NC 27699-1202 | tel: 919.647-0000 fax: 919.662-4414

July 19, 2022

### **New Version**

The Board staff have reviewed your application to prequalify for a standard certificate in Building Level 1, Electrical Level 3, Mechanical Level 1, and Plumbing Level 1.

1. The Following Applications are On Hold:

More information is needed from you before we can process the following applications. Log into the Qualification Board application at <a href="https://apps.ncdoi.net/f?p=114">https://apps.ncdoi.net/f?p=114</a> to provide the needed information.

### Building Level 1

 \* Missing Technical Supervision Letter: Download the form at <u>https://www.ncosfm.gov/media/2618</u>, upload the completed form to the application and resubmit.
 \* Holding for additional Information: Need more documentation to support your Building 1 application.

### Mechanical Level 1

\* Required course not completed for this trade/level

\* Holding for additional Information: Your references for work on the Phillips building in 2019 could not be confirmed. Please provide additional supporting information on that project.

2. Comity Review

Based on a review of your application, you have been granted comity for the following trade, and will not be required to sit for an exam.

Standard certificates issued under comity shall expire if required courses are not completed within the 3 year period.

Plumbing Level 1

### 3. Exam Eligibility Approval

Your application for Electrical Level 3 has been approved. You will be allowed to register for the following exams after the date shown:

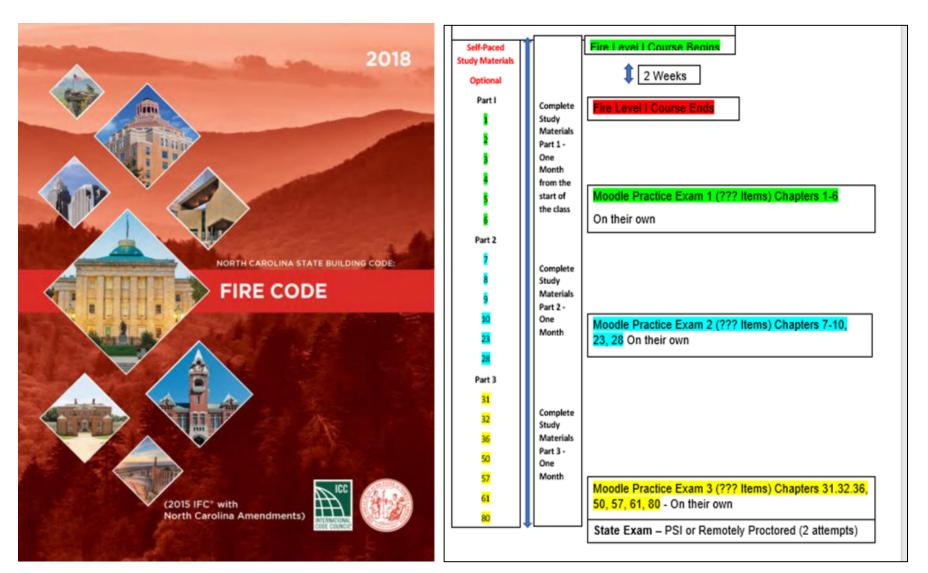
Trade and Level Starting Exam Code Electrical Level 3 07/28/2022 EL3

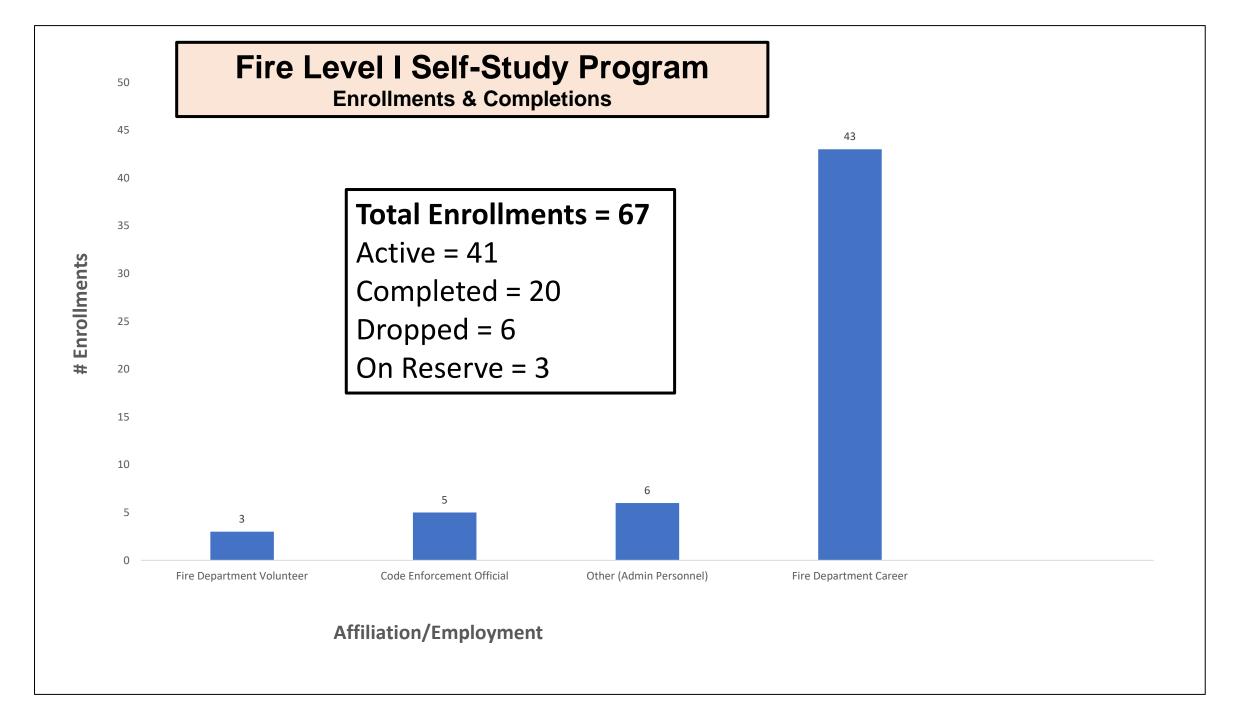
Exam approvals are sent out each night. Please wait 24 hours to contact PSI for registration. To

# Examination Rich Hall

## Fire Level I Self-Study Program Self-Study Materials and Phase Exams

We have been contending with low pass rates for all exams for a long time. Using this self-study program and the Fire Code along with multiple Moodle activities, the candidate searches and identifies specific code references to gain the code knowledge needed to complete thorough and professional inspections.





SCORE DISTRIBUTION (Numerically)								
<70 70-79% 80-89% 90> Total								
EOC	0	4	4	14	22			
Self-Study	0	0	0	8	8			

SCORE DISTRIBUTION (Percentages)								
<70 70-79% 80-89% 90> Total								
EOC	0%	218	18%	64%	100%			
Self-Study to State Exam	0%	0%	0%	100%	100%			

SCO	RE DISTR	SCOR	E DISTRIBU				
Rule	<70	70-79%	80-89%	90>	Total	Rule	<70
47	0	1	1	1	3	47	0
48	0	0	0	0	0	<mark>48</mark>	0
49	0	0	0	2	2	49	0
51	0	0	0	0	0	51	0
53	0	0	0	4	4	53	0
54	0	3	3	7	13	54	0
55	0	0	0	0	0	55	0
	0	4	4	14	22		0

SCORE DISTRIBUTION BY BOARD RULE (Self-Study to State Exam)							
Rule	<70	70-79%	80-89%	90>	Total		
47	0	0	0	0	0		
48	0	0	0	3	3		
49	0	0	0	1	1		
51	0	0	0	0	0		
53	0	0	0	1	1		
54	0	0	0	3	3		
55	0	0	0	0	0		
	0	0	0	8	8		

# **Candidate Information Bulletin**

Fire Le	vell		Number of Questions: 150 Time Allowed: 3.5 Hours
	Content Area	% of Items	Approved references allowed in the examination site
	Administrative Code and Policies	9	
Ch. 1	Scope and Administration	13	2018 North Carolina Fire Code
Ch. 2	Definitions	6	2018 Administrative Code & Policies*
Ch. 3	General Requirements	13	2020 NC COQB Board Rules
Ch. 4	Emergency Planning and Preparedness	5	*Note: North Carolina's General Statutes and
Ch. 5	Fire Service Features	6	Agency Rules pertaining to Code Enforcement
Ch. 6	Building Services and Systems	9	Officials are also Law and Administration
Ch. 7	Fire and Smoke Protection Features	3	references for each technical exam that must be
Ch. 8	Interior Finish, Decorative Materials and Furnishings	5	downloaded and printed from the NC Code Officials Qualification Board website and inserted into the
Ch. 9	Fire Protection Systems	22	NC Administrative Code and Policies, Ch. 3.
Ch. 10	Means of Egress	23	Ne Administrative code and Folicies, en. 5.
Ch. 23	Motor Fuel-dispensing Facilities and Repair Garages	6	*https://www.ncosfm.gov/administrative/general-
Ch. 28	Lumber Yards & Agro-industrial, Solid Biomass & Woodworking	2	statutes- pertaining-code-enforcement-officials-
Ch. 31	Tents and Other Membrane Structures	6	complete/download
Ch. 32	High-piled Combustible Storage	5	*https://www.ncosfm.gov/links-general-statutes-
Ch. 36	Marinas	2	printing-and- inserting-your-administrative-code-
Ch. 50	Hazardous Materials—General Provisions	7	book/download
Ch. 57	Flammable and Combustible Liquids	6	]
Ch. 61			*https://www.ncosfm.gov/coqb-board-rules
Ch. 80	Referenced Standards	1	

# What the Participants Think

- ✤ "I feel so much more confident after completing Phase 1 than from the course alone. "
- It takes quite a bit of time, but in the end, it is well worth it.
- ✤ "As much of a pain as it is, it is worth the effort.
- \* "At first, I was skeptical about the Moodle idea, but I think it will be a great method for learning and retention of the Codes."

"I have seen many changes to the certification classes and frankly they have seemed to make it harder with every change for the volunteer side. ... I was expecting a one-week class ... and then take my exam. I was not expecting the three months online but this time the state got it right... .putting your nose into the book ... the online modules made the student do just that. The exercises really made the student go through the book and learn where the different chapters are and how to reference them correctly. I felt very confident when I arrived at the testing center... and finished with time to spare. That was from being made to learn the book in a productive manner that relates to the real world. I passed the exam and feel that the online module truly helped me. I know this system ... will help so many more upcoming inspectors... I really hope that OSFM will eventually try to do similar changes to other firefighter classes... Thank you for all your help"

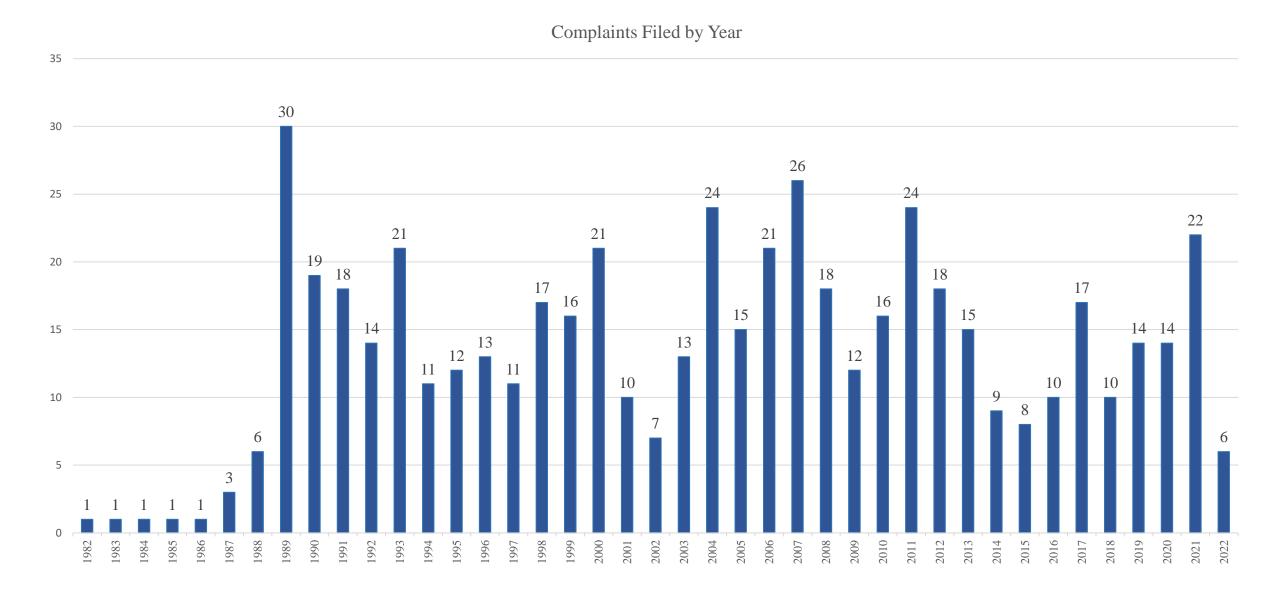
# Summer Intern – Elena Tsai, UNC Chapel Hill

# COQB Exam: Cohort Comparison

Summer Intern - Elena Tsai (UNC-CH)

	FIRE LEVEL I								
	Cert. Rules	Avg. Score	Median Score	Std. Dev	Criteria	# of Passes	Criteria	# of Fails	Passing Rate (%)
	Level I ONLY	70.088	3 71	9.43	3 Y	9	3 N	67	58.125
	One Year Diploma	70.833	3 71	8.58	θY	:	5 N	1	83.333
EDUCATION	Two Year Degree								
	Four Year Degree	74.786	5 75.5	6.78	4 Y	1	2 N	2	85.714
	Probationary								
	Six Months	74.133	5 76	5 8.44	2 Y	1	1 N	4	i 73.333
	One Year	69.000	) 68	4.58	3 Y	:	1 N	2	2 33.333
	Two Years	68.000	) 67	9.57	Y		7 N	13	3 35.000
EXPERIENCE	Three Years								
EAFERIENCE	Four Years	69.532	. 71	9.54	4 Y	7	3 N	51	58.871
	Five Years								
	Third Party								
	Military								
	License								

	Fire Level I
avg. course	82.477
course stdev	14.972
course std. error	1.078
avg. exam	70.523
% diff course & exam	14.493
exam stdev	9.994
exam std. error	0.719
exam skew	-0.541
exam kurt	1.502
avg. la score	91.447
la stdev	7.592
la stderror	0.280
# people	193



# **Election of Officers**

### <u>AGENDA</u>

- Introduction and Roll Call
- <u>Conflict of Interest Reminder</u>
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Bylaws – nominations?

- Chairman Bill Thunberg
- Vice-Chair Fleming El-Amin
- Secretary Rob Roegner
- P&P Richard White
- Q&E Tom Bender
- E&R Karen Tikkanen

# Adjournment

### <u>AGENDA</u>

- Introduction and Roll Call
- <u>Conflict of Interest Reminder</u>
- <u>Approve Minutes</u>
- <u>Recognize Fifth Level III Standard</u> <u>Certificate(s)</u>
- <u>Public Comment</u>
- <u>Committee Reports</u>
- On-Going Business
- New Business
- <u>Staff Report</u>
- Election of Officers
- Adjournment