

# **Curriculum Vitae Nicole Pesqueira**

## **Current Position**

Fire Marshal–El Segundo Fire Department, El Segundo, California

## **Duties and Responsibilities**

Oversees fire prevention staff and activities and reviews proposed construction/equipment projects for compliance with fire code and environmental regulations. Plans, organizes, directs, and supervises the Fire Prevention Division.

Investigates all types of fires (structure, vehicle, and wildland fires) and post blast explosions from the initial scene through the criminal prosecution if warranted. This includes cause determination, documenting, collecting, evaluating and preserving evidence, conducting interviews with witnesses, preparing written reports, conferring with criminal prosecutors and providing testimony. Plans, organizes, directs, and supervises the Fire Prevention Division.

Schedules, trains, evaluates, and supervises assigned staff. Ensures that Fire Prevention staff meets and respond to the Fire Department's customer service goals, objectives, and standards and are following division and departmental policies and procedures. Assists in hiring staff, initiates corrective and/or disciplinary action and responds to grievances and complaints following established personnel policies and procedures and in consultation with Department management staff and Human Resources.

Responds to major emergencies to assist fire command staff as assigned and to control fire and life safety systems, as required.

Responds to the City Emergency Operations Center (EOC) and performs duties and responsibilities, as required.

Maintains effective working relationships with representatives of other City departments, county, state, and federal agencies involved with the fire service, the general public, community groups, and organizations.

Formulates and enforces Fire Prevention policies and procedures.

Makes presentations to City Council and/or represents the Department at City Council and/or civic or professional group meetings.

Writes and reviews detailed reports, letters, and other material related to Fire Prevention activities.

Represents the Department on matters relating to the development, promulgation, and enforcement of related codes and ordinances.

Oversees and performs new construction/equipment plan reviews and indicates necessary corrections for evaluating fire protection/life safety systems, underground storage tanks and hazardous materials facilities; coordinates plan check activities with City functions and outside

agencies; attends meetings and performs liaison role for fire/life safety, and environmental and water supply issues; ensures plans meet the requirements of related federal, state, and local fire protection, life safety and environmental codes, regulations and restrictions.

Reviews proposed projects with and provides technical assistance to developers, consultants, engineers, architects, contractors, City personnel and the public; interprets and explains requirements and restrictions relative to fire/life safety codes, ordinances, regulations, policies and procedures; develops alternative methods to comply with requirements and restrictions.

Oversees the Department's annual inspection program and inspects businesses for fire hazards, proper operation of suppression devices, adequacy of fire escapes and exits, and general compliance with fire codes, underground storage tank and industrial waste provisions, coordinates and schedules training drills between local facilities and the department.

### **Fire Employment History**

El Segundo Fire Department – January 2022 to Present  
Fire Marshal

Pierce Fire Investigations – December 2021 to Present  
Contract Fire Investigator

Brea Fire Department – May 2016 to December 2021  
Fire Prevention Specialist II/Fire Investigator

Garrett Engineering – December 2020 to Present  
Contract Fire Investigator

Santa Ana College– December 2019 to Present  
Part-Time Adjunct Instructor

LIT Fire & Life Safety Services – October 2018 to Present  
Owner/Instructor/Consultant

Pasadena Fire Department – June 2014 to May 2016  
Fire Inspector

### **Investigative Experience**

	<b>Cases/Scenes</b>	<b>Accidental</b>	<b>Arson</b>	<b>Undetermined</b>
Structure Fires	62	45	3	20
Vehicle Fires	19	4	12	3
Wildland Fires	6	1	4	1
Fatal Fire Investigations	1	0	1	0

### **Formal Education**

California State University, Fullerton	Bachelor of Arts in Psychology	05/08
Santa Ana College	A.S. Fire Tech Prevention Officer	06/14
Santa Ana College	A.S Public Fire Safety Education Officer	06/16

## **Certifications**

Fire Inspector I - ICC	12/13
Certified Code Inspector - NCSA	07/14
PC 832 Laws of Arrest – Post	06/15
PC 832 Firearms – Post	11/15
Fire Prevention Officer – Santa Ana College	06/16
Public Fire Safety Education Officer – Santa Ana College	06/16
Wildland Urban Interface – National Fire Academy	04/17
Hazardous Materials Technician – CSTI	04/17
Certified Fire & Explosion Investigator – NAFI	10/20
State Fire Training:	
Public Education	08/14
Fire Inspector I	11/15
Fire Inspector II	10/17
Plans Examiner	10/17
Registered Instructor	11/18
Fire Investigator I	12/18

## **Specialized Training:**

### **State Fire Training:**

Motion Picture/Television Fire Safety Officer	10/14
Public Education 1	01/15
Training Instructor 1A-1B	11/15
Fire Inspector 1A-1D, 2A-2D	12/15
Licensed Registered Care Facilities	09/16
Fire Prevention 1A-1B, 2A-2C, 3A-3B	10/17
Statutes & Regulations	05/18
Fire Investigator 1A-1B, 2A-2B	08/18
Ethical Leadership	09/18
Regional Instructor Orientation	09/18
Instructor 2	11/18
Fire Marshal 1A-1D	03/20

### **CFI Trainer.net:**

Fundamentals of Residential Building Construction	10/12
Fire Protection Systems	11/12
Charleston Sofa Super Store Fire	11/12
Fire Investigator Scene Safety	10/18
The Scientific Method for Fire and Explosion Investigation	10/18
Documenting the Event	10/18
Physical Evidence at the Fire Scene	10/18
Investigating Fatal Fires	10/18
Introduction to Evidence	10/18
Search and Seizure	10/18
Post Flashover Fires	10/18
Investigating Motor Vehicle Fires	10/18
Introduction to Fire Dynamics and Modeling	10/18
Accreditation, Certification and Certificates	10/18
Fundamentals of Interviewing	12/18
Motive, Means & Opportunity: Determining Responsibility in Arson Case	12/18
Ethics and the Fire Investigator	02/19
Digital Photography and the Fire Investigator	02/19
Writing the Initial Origin and Cause Report	02/19
The Practical Application of the Relationship between NFPA 1033 & 921	02/19
Motor Vehicles: The Engine and the Ignition, Electrical & Fuel Systems	12/20
Motor Vehicles: Transmission, Exhaust, Brake & Accessory Systems	12/20

## **Specialized Training (cont.):**

Fire Behavior & Combustion	01/12
Fire Protection Organization	05/12
Personal Fire Safety	05/12
Building Construction for Fire	12/12
Fire Prevention Technology	12/12
Fire Protection Equipment and Systems	12/12
Firework Disasters & Enforcement	05/15
Flammable Refrigerant & Refrigeration Rooms	05/15
Food Trucks	05/15
PC 832 – Laws of Arrest	06/15
PC 832 – Firearms	11/15
Haz-Mat First Responder Awareness	01/16
Flammable Refrigerants & Refrigeration Rooms	03/16
Hazardous Materials Technician 1A-1D	04/17
2016 Flammable Liquids & Gases	01/18
Hazardous Materials Provisions of the 2016 IFC and IBC	07/18
NFPA – Assessing Structure Ignition Potential from Wildfire	08/18
Residential Occupancy Class	08/18
Fire Investigation Fundamentals	03/19
Aerial & Theatrical Fireworks Training	05/19
Fire Sprinklers: Type, Spacing & Location Requirements	06/19
CPVC Inspection & Plan Check	06/19
Residential Care Facilities	08/19
Report Writing and NFPA 921 Updates	09/19
Significant Changes to the 2019 CFC	12/19
Inspection & Testing for the Fire Sprinkler Industry	12/19
Fire Pumps	12/19
Courtroom in the Classroom	02/20
DCARI Identifying Damage to Electrical Conductors	04/20
Report Writing	05/20
2020 NFPA and Fire Investigation	05/20
Fire Suppression Systems Overview	05/20
2021 NFPA 921 Chapter 6 – Fire Patterns	06/20
Voltage Drop for Fire Alarm Notification Circuits	07/20
2019 CFC/CBC Residential Care Facilities for the Elderly (RCFE)	08/20
2021 NFPA 921 Chapter 19 Fire Cause/Classification	08/20
Fire Investigator Legal Challenges	08/20
Inspection of Commercial Kitchen Grease Exhaust Systems	09/20
Working the Fire Scene	11/20
Updates on High Pile Combustible Storage	11/20
Fire Protection Academy	12/20
DCARI Fire Origin Pattern Persistence in Post Flashover Fires	01/21
DCARI Identifying Damage to Electrical Conductors for Fire Investigators	01/21
DCARI Receptacle Fires	01/21
DCARI Fire Alarm Panel	01/21
DCARI Timelines for Fire Investigations	01/21
Wildland Fire Investigation	01/21
Effects of Code Enforcement on Fire Investigations	01/21
Documenting the Fire Scene and Preparing Your Expert Report	02/21
CCAI – Fire Scene Research Sources	02/21
CCAI – Lithium Ion Batteries	02/21
CCAI – Fireplace Investigations	02/21
CCAI – Wildland Fire Investigation	02/21
CCAI – Fire Dynamics & Fire Pattern Analysis	02/21
CCAI – Fire Science, Investigation Tech & Methodology in Reaching O & C	02/21
CCAI – Being Prepared When Presenting Your Case to the D.A.	02/21
DCARI Wildland Fire Investigations	02/21
Alternative Materials and Methods	03/21
ESS – California Adoption of 2021 IFC/IRC Language	03/21

## **Specialized Training (cont.):**

CCAI – The Discovery & Science of Smart Meter Fires	04/21
DCARI Fire Investigation Report Writing	04/21
DCARI Origin and Cause Report Writing	04/21
DCARI Myths and Legends in Fire Investigations	04/21
DCARI Fire Dynamics	05/21
DCARI Corrugated Stainless Steel Tubing	05/21
Impact of Ventilation on Fire Patterns - UL	05/21
DCARI The Persistence of Fire Patterns in Post Flashover Compartment Fires	06/21
DCARI Arson Profiling/Behavior Analysis Unit	06/21
CCAI - How to Prepare for Arson Cases	06/21
CCAI – PC 451; Arson Investigation Report Writing & Penal Code Orientation	10/21

## **Administrative Controlled Fires:**

I have witnessed over 30 administrative controlled fires. I observed fire spread and fire behavior effects during and post fire examinations and analysis. These controlled fires duplicated accidental and criminal events.

## **Seminars:**

I have attended 8 seminars; each 40 hours in length. Four of these seminars were through California Fire Prevention Institute. One was through National Fire Protection Association. Three of the conferences was with the California Conference of Arson Investigators.

## **Memberships:**

California Conference of Arson Investigators (CCAI) – Fire Prevention Liaison, Roundtable Coordinator  
International Code Council (ICC)  
National Fire Protection Association (NFPA)  
National Association of Fire Investigators (NAFI)  
California State Firefighters' Association (CSFA) – Fire & Life Safety Committee  
Orange County Arson Task Force (OCATF)  
Orange County Fire Prevention Officer's Association (OCFPO) – Past President  
Southern California Fire Prevention Officer's Association (So Cal FPO) – Treasurer)

## **Committees:**

So Cal FPO Fire Code Committee  
So Cal FPO Fire Service Education Committee Co-Chair

## **Teaching Experience:**

Fire Inspector 1A	3/19- Present
Fire Inspector 1B	3/19- Present
Fire Inspector 1C	3/19- Present
Fire Inspector 1D	3/19- Present
Fire Inspector 2A	3/19- Present
Fire Inspector 2B	3/19- Present
Fire Inspector 2C	3/19- Present
Fire Inspector 2D	3/19- Present

## **Publications:**

2019 California Fire Code Handbook Published by ICC