

CURRICULUM VITAE

DOLORES OROZCO-CRUZ

CFPS, FIT, MSc

Dolores Orozco is a fire safety engineer with international experience. She received her master's degree from Ghent University in Ghent, Belgium, where she also worked in the design of fire exhaust systems using computational modeling for customers in Belgium and the Netherlands. Ms. Orozco has four years of experience in Mexico working on local and international projects as a fire design engineer and adjuster in claims for the oil, gas, and chemistry industries. In 2022, she received her certification as a Fire Investigator Technician from the International Association of Arson Investigators.

Professional Experience

- **Engineering Associate**, Fire Cause Analysis, Los Angeles, CA 2021 to present
Fire dynamics modeling, fire protection risk analysis, Fire and Building Code compliance analysis, evidence and laboratory examinations, microscopy, x-ray, disassembly, and photography, site inspections, and fire protection design projects.
Forensic fire investigation. Forensic data gathering and the application of the scientific method. Triage of fire scenes (conducting preliminary interviews, scene diagrams, photography) under the direction of Certified Fire Investigator.
- **Fire Engineer Intern**, Brakel Aero, Melle, Belgium 2017
Designing smoke and heat exhaust ventilation systems (SHEVS), per Belgian regulations.
Computational Fluid Dynamics simulations using Fire Dynamic Simulator and Pyrosim for vehicle parks, industrial buildings and atria.
- **Adjuster**, Cunningham Lindsey, Mexico City, Mexico 2013 to 2015
Evaluation of damages caused by fire, natural disasters and fuel contamination for Oil & Gas and Chemical industry.
- **Fire Protection Engineer**, ICA Fluor Daniels, Mexico City, Mexico 2011 to 2013
Design of fire protection systems for Chemical and Oil & Gas facilities.
Elaboration of engineering documents such as firewater network, detection and alarm systems, and deluge systems P&I diagrams.

Education

- **MSc Fire Safety Engineering**, Ghent University, Belgium 2015 to 2018
Master Thesis - numerical simulations of pressure effects in the event of fire in passive houses. Supervisors: Dr. Tarek Beji and Professor Bart Merci.

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- **BSc Chemical Engineering**, National Autonomous University of Mexico (UNAM), 2005 to 2010 Mexico

Professional Designations and Certifications

- **Fire Investigation Technician**, International Association of Arson Investigators (IAAI-FIT) 2022 to present
- **Certified Fire Protection Specialist**, National Fire Protection Association Certification Number: 5139 2019 to present

Professional Licenses

- State of California Private Investigator License # PI11582

Professional Associations

- National Association of Fire Investigators - NAFI Number - 29666 2024 to present
- Society of Fire Protection Engineers, Southern California Chapter 2022 to present
- Society of Fire Protection Engineers, Mexico Chapter 2022 to present
- International Association of Arson Investigators 2021 to present
- Society of Fire Protection Engineers (SFPE) 2016 to present

Teaching Experience

- Mercury Insurance - *"Fire Spread - Hidden Claims Exposures"* - Webinar - Oct 2024
Berkeley, CA
- IASIU SoCal Chapter Monthly Meeting - *"Arson Investigations That Sizzle"* - Jan 2024
Rancho Cucamonga, CA
- The Surplus Line Association of California - *"Earth, Wind, and Fire: Evaluating the Risk and Investigating the Cause"* August 2021

Professional Development

[H = hours; TH = Tested Hours]

- **Fire Cause Analysis**

Asbestos Awareness Training	11/26/2024	2.00 TH
Lead Awareness Training for General Industry	11/22/2024	2.00 TH
Asbestos Awareness Training	08/16/2022	2.00 TH
Lead Awareness Training for General Industry	08/16/2022	2.00 TH
Asbestos Awareness Training	04/08/2021	2.00 TH
Lead Awareness Training for General Industry	04/05/2021	2.75 TH
Engineering and Evidence	02/16/2021	1.00 TH
- **Society of Fire Protection Engineers (SFPE)**

Introduction to Ethics for Fire Protection	12/11/2023	1.00 TH
On-Demand Access to SFPE22 Annual Conference Featured Sessions	01/24/2023	4.50 H
SFPE22 Annual Conference and Expo	10/17/2022	10.50 H

Fundamentals of Fire Investigation - The Relationship Between Compartment Fire Dynamics and Resulting Post-Incident Damage Patterns	08/31/2022	1.00 TH
Research in Fire Engineering: Development of Fire Protection Engineering Practitioner Tools		
Beyond the Cause and Origin: Engineering Analysis of Building Fire	06/18/2021	15.00 TH
• UL Firefighter Safety Research Institute		
The Science of Fire and Explosion Hazards from Lithium-Ion Batteries	12/13/2024	1.00 TH
Impact of Ventilation on Fire Patterns	01/21/2021	1.25 TH
• International Association of Arson Investigators - CFITrainer.net		
Knowledge 1 Fire Dynamics Tier I	01/13/2025	15.00 TH
Critical Evaluation and Testing of Commonly Reported Accidental Causes	02/27/2023	3.00 TH
Arc Mapping Basics	02/27/2023	4.00 TH
Investigating Natural Gas Systems	02/22/2023	3.00 TH
Residential Natural Gas Systems	02/21/2023	3.00 TH
Fire Protection Systems	02/21/2023	3.00 TH
Fire Dynamics Calculations - Version 2.0	10/04/2022	4.00 TH
Explosion Dynamics	07/15/2021	4.00 TH
The Practical Application of the Relationship Between NFPA 1033 and NFPA 921	07/13/2021	2.00 TH
Thermometry, Heat, and Heat Transfer	07/13/2021	3.00 TH
NFPA 1033 and Your Career	07/12/2021	2.00 TH
Ethics and the Fire Investigator	07/08/2021	3.00 TH
The Scientific Method for Fire & Explosion Investigation	06/22/2021	3.00 TH
Basic Electricity	05/20/2021	4.00 TH
Documenting the Event	05/18/2021	3.00 TH
Introduction to Evidence	04/08/2021	4.00 TH
Digital Photography and the Fire Investigator	03/30/2021	4.00 TH
Electrical Safety	03/29/2021	3.00 TH
Fire Investigator Scene Safety	03/29/2021	3.00 TH
The Impact of Ventilation in Building Structures on Fire Development	03/25/2021	4.00 TH
Understanding Fire Through the Candle Experiment	03/18/2021	4.00 TH
Charting your Career Path in Fire Investigation	01/08/2021	3.00 TH
Introduction to Fire Dynamics and Modeling	05/27/2020	4.00 TH
Fire Flow Analysis	04/29/2020	3.00 TH
Fire Chemistry	04/27/2020	3.00 TH
• Ghent University		
Active Fire Protection I: Detection and Suppression	2016	180 TH
Active Fire Protection II: Smoke and Heat Control	2016	180 TH
Passive Fire Protection	2016	180 TH
FSE Based Firefighting	2016	90 TH
Fire Safety and Legislation	2016	90 TH
Explosions and Industrial Fire Safety	2016	180 TH
Fluid Mechanics Applications in Fire	2016	180 TH
Interaction between People and Fire	2016	180 TH
Introduction to Fire Dynamics	2015	270 TH
Thermodynamics, Heat and Mass Transfer	2015	180 TH