

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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• 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. | |

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

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	2019 to present
• Certification Number: 5139	

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

Professional Development

[H = hours; TH = Tested Hours]

Fire Cause Analysis

11/26/2024	Asbestos Awareness Training	2.00 TH
11/22/2024	Lead Awareness Training for General Industry	2.00 TH
08/16/2022	Asbestos Awareness Training	2.00 TH
08/16/2022	Lead Awareness Training for General Industry	2.00 TH
04/08/2021	Asbestos Awareness Training	2.00 TH
04/05/2021	Lead Awareness Training for General Industry	2.00 TH
02/16/2021	Engineering and Evidence	2.75 TH

Society of Fire Protection Engineers (SFPE)

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D. Orozco CV 01/2025

12/11/2023	Introduction to Ethics for Fire Protection Engineers	1.00 TH
01/24/2023	On-Demand Access to SFPE22 Annual Conference Featured Sessions	4.50 H
10/17/2022	SFPE22 Annual Conference and Expo	10.50 H
08/31/2022	Fundamentals of Fire Investigation - The Relationship Between Compartment Fire Dynamics and Resulting Post-Incident Damage Patterns.	1.00 TH
08/22/2022	Research in Fire Engineering: Development of Fire Protection Engineering Practitioner Tools	1.00 H
06/18/2021	Beyond the Cause and Origin: Engineering Analysis of Building Fire	15.00 TH
UL Firefighter Safety Research Institute		
12/13/2024	The Science of Fire and Explosion Hazards from Lithium-Ion Batteries	1.00 TH
01/21/2021	Impact of Ventilation on Fire Patterns	1.25 TH
International Association of Arson Investigators - CFITrainer.net		
01/13/2025	Knowledge 1 Fire Dynamics Tier I	15.00 TH
02/27/2023	Critical Evaluation and Testing of Commonly Reported Accidental Causes	3.00 TH
02/27/2023	Arc Mapping Basics	4.00 TH
02/22/2023	Investigating Natural Gas Systems	3.00 TH
02/21/2023	Residential Natural Gas Systems	3.00 TH
02/21/2023	Fire Protection Systems	3.00 TH
10/04/2022	Fire Dynamics Calculations - Version 2.0	4.00 TH
07/15/2021	Explosion Dynamics	4.00 TH
07/13/2021	The Practical Application of the Relationship Between NFPA 1033 and NFPA 921	2.00 TH
07/13/2021	Thermometry, Heat, and Heat Transfer	3.00 TH
07/12/2021	NFPA 1033 and Your Career	2.00 TH
07/08/2021	Ethics and the Fire Investigator	3.00 TH
06/22/2021	The Scientific Method for Fire & Explosion Investigation	3.00 TH
05/20/2021	Basic Electricity	4.00 TH
05/18/2021	Documenting the Event	3.00 TH
04/08/2021	Introduction to Evidence	4.00 TH
03/30/2021	Digital Photography and the Fire Investigator	4.00 TH
03/29/2021	Electrical Safety	3.00 TH
03/29/2021	Fire Investigator Scene Safety	3.00 TH
03/25/2021	The Impact of Ventilation in Building Structures on Fire Development.	4.00 TH
03/18/2021	Understanding Fire Through the Candle Experiment	4.00 TH
01/08/2021	Charting your Career Path in Fire Investigation	3.00 TH

05/27/2020	Introduction to Fire Dynamics and Modeling	4.00 TH
04/29/2020	Fire Flow Analysis	3.00 TH
04/27/2020	Fire Chemistry	3.00 TH
Ghent University		
2016	Active Fire Protection I: Detection and Suppression	180 TH
2016	Active Fire Protection II: Smoke and Heat Control	180 TH
2016	Passive Fire Protection	180 TH
2016	FSE Based Firefighting	90 TH
2016	Fire Safety and Legislation	90 TH
2016	Explosions and Industrial Fire Safety	180 TH
2016	Fluid Mechanics Applications in Fire	180 TH
2016	Interaction between People and Fire	180 TH
2015	Introduction to Fire Dynamics	270 TH
2015	Thermodynamics, Heat and Mass Transfer	180 TH