

Curriculum Vitae

Dolores Orozco, MSc, CFPS

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 modelling 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.

Professional Experience

- Engineering Associate**, Fire Cause Analysis, Los Angeles, CA 2021 to present
- 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.
- BSc Chemical Engineering**, National Autonomous University of Mexico (UNAM), Mexico 2005 to 2010

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Professional Designations and Certifications

Certified Fire Protection Specialist, National Fire Protection Association 2019

- Certification Number: 5139

Professional Licenses

State of California Private Investigator License # PI11582

Professional Associations

International Association of Arson Investigators 2021 to present

Professional Development

[H = hours; TH = Tested Hours]

Fire Cause Analysis

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

UL Firefighter Safety Research Institute

01/21/2021	Impact of Ventilation on Fire Patterns	1.25 TH
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International Association of Arson Investigators - CFITrainer.net

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