

Diego Mauricio Freire Ordóñez

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Age: 35 years
Civil Status: Married

Formation

PhD Chemical Engineering
2018-2022

Imperial College London – United Kingdom

MSc. Advanced Process Integration and Design
2015-2016

University of Manchester – United Kingdom

MEng. Administration of Energy and its Renewable Sources.
2013-2016

Monterrey Institute of Technology - Mexico

MBA. Hydrocarbon Industry Management
2012-2014

Viña del Mar University - Chile

MBA. Integrated Management Systems-HSEQ
2012-2013

Camilo Jose Cela University - Spain

Chemical Engineer
2004-2010

Central University of Ecuador

Secondary
1998-2004

Colegio Municipal Experimental Sebastian de Benalcazar
High School in Science

Primary

1992-1998

Pensionado "Pedro Pablo Borja Yerovi N°3"

Courses Taken

- Pipesim Modeling and Simulation. Octagon Management & Engineering Solutions. 14 hours
- Plant Design Engineering. Octagon Management & Engineering Solutions. 30 hours
- Advanced Process Design Engineering. Octagon Management & Engineering Solutions. 30 hours
- Process Design Engineering. Octagon Management & Engineering Solutions. 30 hours

- Aspen Hysys for Oil and Gas. Octagon Management & Engineering Solutions. 30 hours
- Process Simulation & Modeling Aspen Hysys Basic. Octagon Management & Engineering Solutions. 14 hours
- Process Design Fundamentals. Octagon Management & Engineering Solutions. 60 hours
- Operation School, Fracturing and Stimulation. Schlumberger. Tyumen-Russia, August 4 - September 12.
- Basic Laboratory Training School - Stimulation. Schlumberger. Sugar Land-USA, September 23 to October 4, 2013. 80 hours.
- Basic Laboratory Training School - Cementing. Schlumberger. Aberdeen-Scotland, March 11 to 22, 2013. 80 hours.
- Energy Management System Course. ISO 50001. Bureau Veritas Formation. 50 Hours.
- OFS-1 Course: introduction to Schlumberger and Exploration and Production industry. Bogota-Colombia, December 10 to 15, 2012.
- Internal Audit of Information Security Management Systems Course. Bureau Veritas Formation. 70 hours.
- Regulation of Storage of Chemical Products Course. Bureau Veritas Formation. 50 hours,
- Internal Audits of Quality ISO 17025 and Application of the 19011 Standard Course. Asecal International. 16 Hours.
- Management and Calibration of Equipment Course. Asecal International. 12 Hours.
- Labour Risk Prevention in the Chemical industry Basic Course. Bureau Veritas Formation. 50 hours.
- Internal Quality Control in Essay Laboratories Course. Asecal International. 12 hours.
- Environmental impact Evaluation Course - Bureau Veritas Formation. 40 hours.
- Basic Course of Radiological Protection in X Rays. National Directorate of Nuclear and Environmental Safety. 12 hours.
- Calculation of the Measurement Uncertainty Course. Asecal International. 12 hours.
- Validation of Essay Methods and Estimation of the Measurement Uncertainty. DPEC. Faculty of Chemical Engineering of the Central University of Ecuador. 16 hours.
- Validation of Physical-Chemical Methods Course. Asecal International. 12 hours.
- Analysis and implementation of the Standard ISO/ IEC 17025:2005 Course. Asecal International. 16 hours.
- Quality Tools for Continuous improvement Course. Bureau Veritas Formation. 50 hours.
- Statistical Quality Control Techniques Course. Bureau Veritas Formation. 50 hours.
- improvement Systems and productions Management Course. Bureau Veritas Formation. 50 hours.
- Process Management Course. Bureau Veritas Formation. 30 hours.

Certifications.

- Internal Auditor of Systems Quality Management according to ISO 17025.
- Internal Auditor of Environmental Management Systems according to ISO 14001.
- Internal Auditor of Systems Quality Management according to ISO 9001.
- Internal Auditor Management Systems Safety and Health at Work in accordance with the Standard OHSAS 18001: 2007.
- Internal Auditor Management Systems Information Security according to ISO 27001: 2005.

Publications

Freire Ordóñez, Diego & Shah, Nilay & Guillén-Gosálbez, Gonzalo, 2021. "Economic and full environmental assessment of electrofuels via electrolysis and co-electrolysis considering externalities," Applied Energy, Elsevier, vol. 286(C).

Freire Ordóñez, Diego & Guillén-Gosálbez, Gonzalo, 2021. "Techno-economic and Environmental Assessment of Electrofuels: a Case Study of Gasoline Production using a PEM Electrolyser," Computer-Aided Chemical Engineering, Elsevier, 48:595-600.

Languages

- English: High level, spoken and written.

Certifications:

- IELTS. Academic Test.
Overall Band Score: 7.0
- English Exam for International Communication (TOEIC).
Score of 925.
Professional Level of English Capability: "Capable of Communicating in an effective manner in almost any situation."

- French: High level, spoken and written

Certifications:

- Approval of the 12 sufficiency levels of the French language. Alianza Francesa de Quito. Computer Science

Software.

Modelling and Optimization:

- Matlab.
- GAMS.
- What's Best.
- Aspen Hysys/Aspen Plus.
- SimaPro.
- Python

Microsoft Office, Microsoft Project, Microsoft Access and Microsoft Visio.

Platforms: Mac and PC.

Experience.

April 2017 to October 2018.

Full-time Professor. Renewable Energies
North Technical University. Ibarra - Ecuador

November 2014 to May 2015.

Environmental Licensing Specialist.
Ministry of the Environment – Ecuador.

December 2012 to September 2014

Field and Fluid Technical Engineer (Cementing and Stimulation).
Schlumberger-Ecuador.

July 2012 to November 2012

Coordinator of the Analysis and update Project of Ecuadorian Technique Standards of the Oil, Fuel and Environmental Services Sector.

Department of Oil, Energy and Contamination (DPEC) / Faculty of Chemical Engineering of the Central University of Ecuador.

February 2012 to November 2012

Essay Analyst.

Department of Oil, Energy and Contamination (DPEC). Quito, Pichincha

January 2008 to July 2009

Assistant of Remunerated Course. Course: Oil Technology

Central University of Ecuador. Quito, Pichincha.

Special Recognitions

- Scholarship Holder for Academic Excellence. Senescyt. Ecuador, 2017.
- Graduation with Distinction. MSc. Advanced Process Integration and Design. The University of Manchester. United Kingdom, 2016
- Best Graduate Award. Monterrey Tech. Mexico, 2016.
- Scholarship Holder for Academic Excellence. Senescyt. Ecuador, 2015.
- Scholarship Holder for Academic Excellence. OAS – Organization of American States – Monterrey Tech. Mexico, 2013.
- Representative of the Technical Sub-Committee of the Products Derived of Oil of INEN as part of the Faculty of Chemical Engineering of the Central University of Ecuador. June 2012 to December 2012.

References

- Gonzalo Guillen-Gosalbez. Senior Lecturer at Imperial College London. Email. g.guillen05@imperial.ac.uk
- Nan Zhang. Senior Lecturer at The University of Manchester. Email. nan.zhang@manchester.ac.uk
- Johana Yunga. Chief of Environmental Licensing at the Ministry of Environment of Ecuador. Tel. 593995253740
- Carmen Romero. Field Service Manager – Well Services. Schlumberger of Ecuador. Tel. 593997690088
- David Guanga. Chief of Laboratory – Well Services. Schlumberger of Ecuador. Tel. 593990604815
- Luis Calle, Dean of the Faculty of Chemical Engineering. Central University of Ecuador. Tel.: 593984259361
- Jorge Medina. Vice-Dean of the Faculty of Chemical Engineering. Universidad Central del Ecuador. Tel. 59322544631.
- Andres De La Rosa, Professor of the Faculty of Chemical Engineering. Central University of Ecuador. Tel. 593992557538.
- David Flor, Coordinator of Chemical Treatment. EP Petroecuador. Tel.: 593993518150