

Merna Tarek Belal

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Profile:

Interested in chemical Engineering, seeking knowledge about my field, always looking forward to having a better career.

Education:

- **BSC of chemical engineering, Alexandria University** 2019
Graduation project: Desalination by solar energy, Grade: Excellent
- **Sidi Gaber language school for girls** 2014

Experience:

- **Aspen HYSYS Instructor, Elevate, A Training Co.** Feb 2022 - Now
 - Covered the following topics:
 - Introduction
 - Getting Started
 - Refrigerated Gas Plant
 - Propane Refrigeration Cycle
 - Two-Stage Compression
 - Introduction to solid handling
 - NGL Fractionation Train
 - Natural Gas Dehydration with TEG
 - Simplified Turbo Expander Plant
 - Multi-Effect Evaporation
 - Piping Systems
 - Reactive Systems
 - Petroleum Assay
 - Side operations (Pump arounds and side strippers)
 - Introduction to optimization
- **Aspen Hysys design and process engineer, Free lancer** March 2023 - Now
 - _ Built a simulation for green ammonia synthesis plant
 - _ Performed economic analysis for green ammonia synthesis plant
- **Quality assurance coordinator, COTECNA Inspection** Oct 2020 – Now
- **Quality control, PROKEM Specialty Chemicals** Oct 2019 – Oct 2020

Courses:

- **HACCP Internal audit, Import and export council** Oct 2024
- **Uncertainty budget estimation , E.O.S** Sep 2024
- **Uncertainty principle, COTECNA Inspection** Aug 2021
- **Audit and Audit principles, COTECNA Inspection** Aug 2021
- **Risk-based thinking, COTECNA Inspection** Aug 2021
- **QA & QC, COTECNA Inspection** Aug 2021

- **ISO 17025:2017 awareness, COTECNA Inspection** Jul 2021
 - **ISO 17020:2012 awareness, COTECNA Inspection** Dec 2020
 - **Certified Lean six sigma green belt, Egyptian Engineers Syndicate** 2020
 - **Completed the ISO 45001 -2018 course as a lead auditor, Quality Institute** 2020
 - **Completed the ISO 9001 -2015 course as a lead auditor, Quality Institute** 2019
 - **Completed the ISO 14001 -2015 course as a lead auditor, Quality Institute** 2019
 - **English General and conversation courses, Ministry of defense language institute** 2011 - 2012
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Extracurricular Activities:

- **NMOLE team, Student activity organizes national competitions and training sessions for chemical and mechanical students' departments, Alexandria University** 2017 - 2019
 - Worked as a **Head of media and marketing committee (2018 - 2019)**.
 - Worked as a **Participant** at the Water treatment project (Designed a prototype for sand and carbon filters) held by the chemical branch (2018).
 - Worked as a **Participant** at the Heat exchanger project (Designed a prototype for a shell and tube heat exchanger) held by the mechanical branch (2018).
 - Worked as a **Participant** at a liquid-liquid extraction project (Designed a prototype for a packed column) held by the chemical branch (2017).
 - **ATOM Initiative, A student activity organizes events and technical courses for students** 2016
Alexandria University
 - Worked as a **Participant** at ATOM 16 project.
 - Worked as a **Public relations member**.
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Summer internship:

- **Abu Quir Fertilizers** 2018
 - **GASCO** 2018
 - **ELAB** 2017
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Skills:

- **Languages:**
 - **Arabic** (mother tongue, fluent)
 - **English** (Second language, Excellent)
- **Software:**
 - **Aspen Hysys** (Aspen HYSYS certified Expert user, Excellent)
 - **Ms office** (very good)
 - **MATLAB** (Fair)
 - **MINI TAB** (Good)
 - **Photoshop** (Good)
- **Personal Skills:**
 - Good with teamwork

Certification:

- Aspen Hysys certified Expert user